

FIG. 1
PRIOR ART

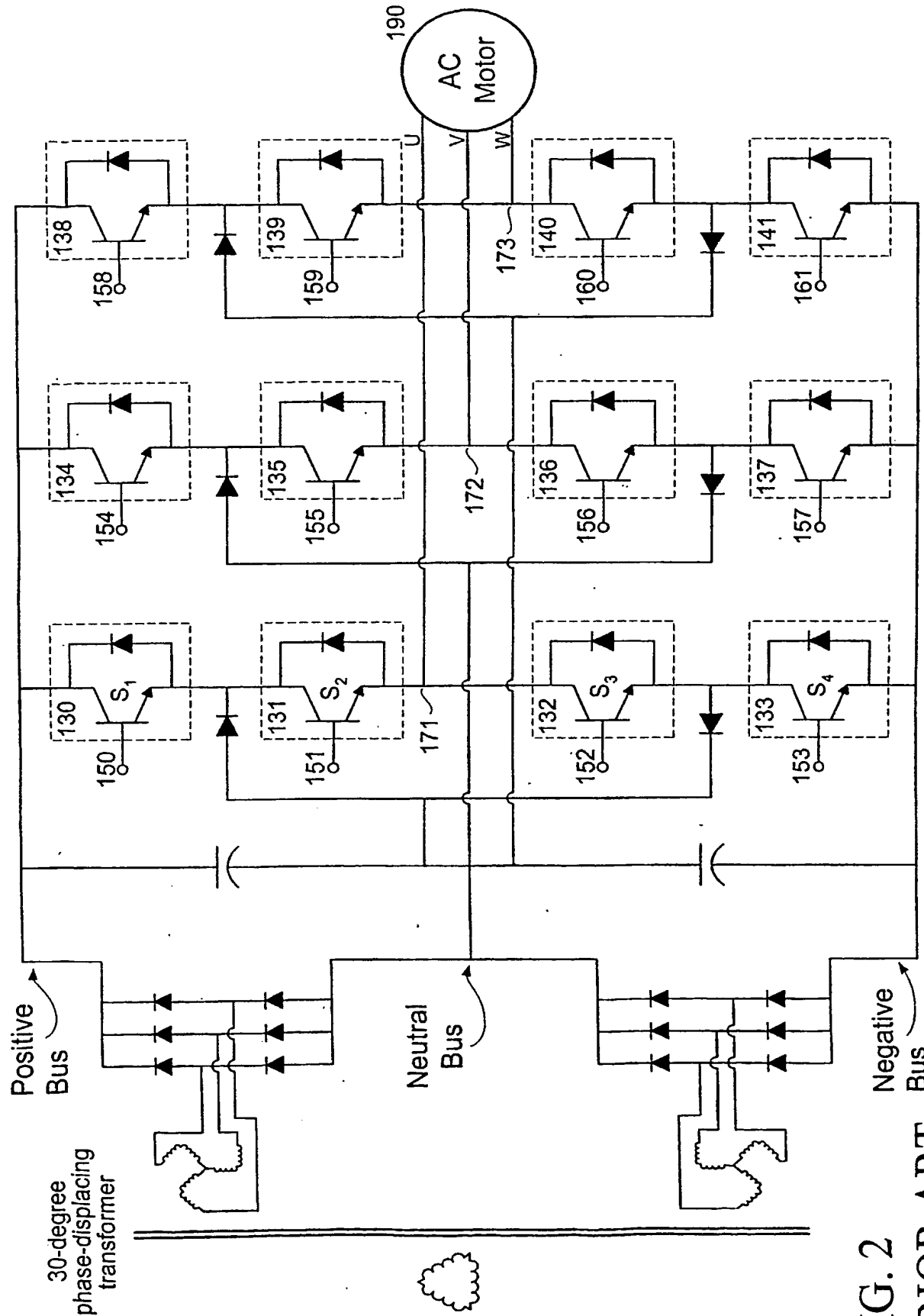
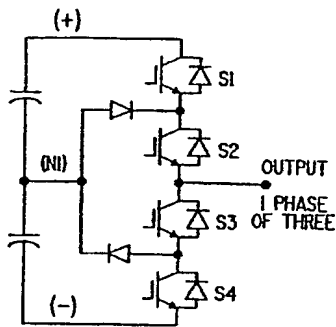
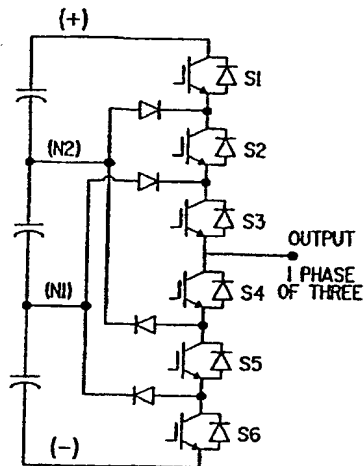
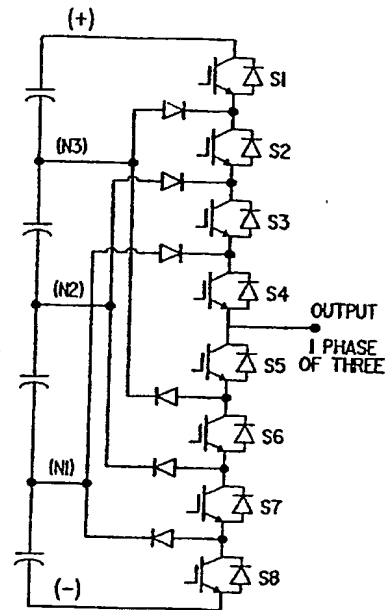


FIG. 2
PRIOR ART

FIG. 3A
PRIOR ARTFIG. 3B
PRIOR ARTFIG. 3C
PRIOR ART

SWITCH STATE		OFF	ON
<u>3 LEVEL</u>	1)	S1,S2	S3,S4
	2)	S1,S4	S2,S3
	3)	S3,S4	S1,S2

FIG. 4A

<u>4 LEVEL</u>	1)	S1,S2,S3	S4,S5,S6
	2)	S1,S2,S6	S3,S4,S5
	3)	S1,S5,S6	S2,S3,S4
	4)	S4,S5,S6	S1,S2,S3

FIG. 4B

<u>5 LEVEL</u>	1)	S1,S2,S3,S4	S5,S6,S7,S8
	2)	S1,S2,S3,S8	S4,S5,S6,S7
	3)	S1,S2,S7,S8	S3,S4,S5,S6
	4)	S1,S6,S7,S8	S2,S3,S4,S5
	5)	S5,S6,S7,S8	S1,S2,S3,S4

FIG. 4C

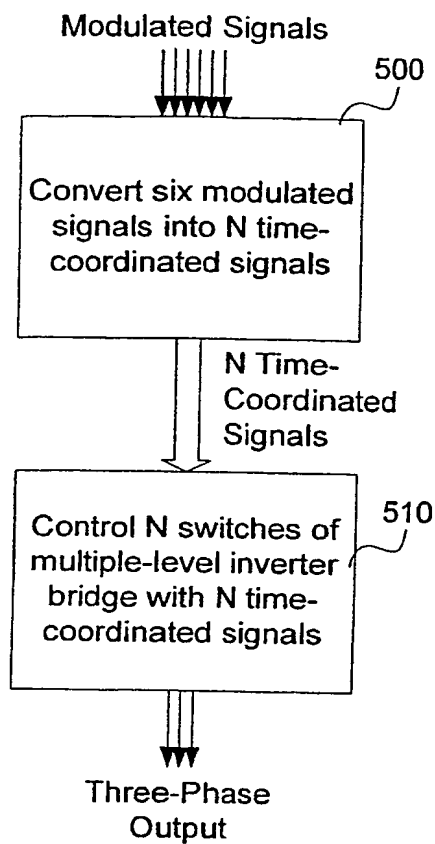


FIG. 5

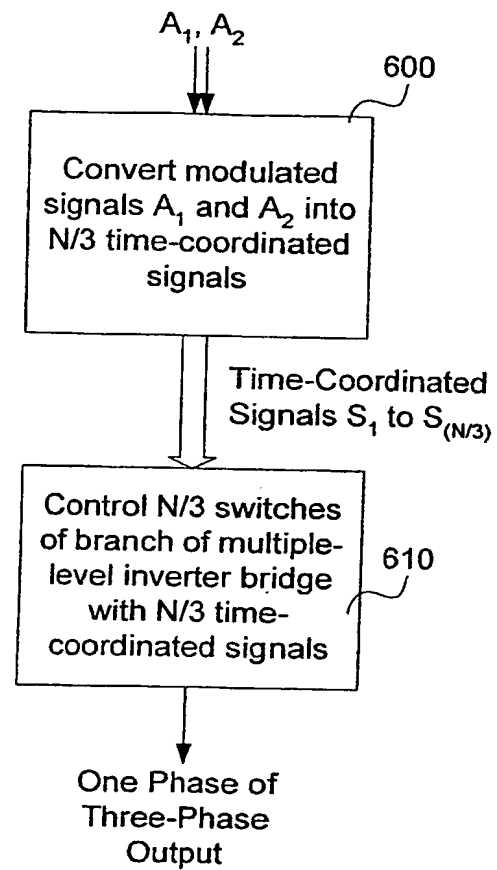


FIG. 6

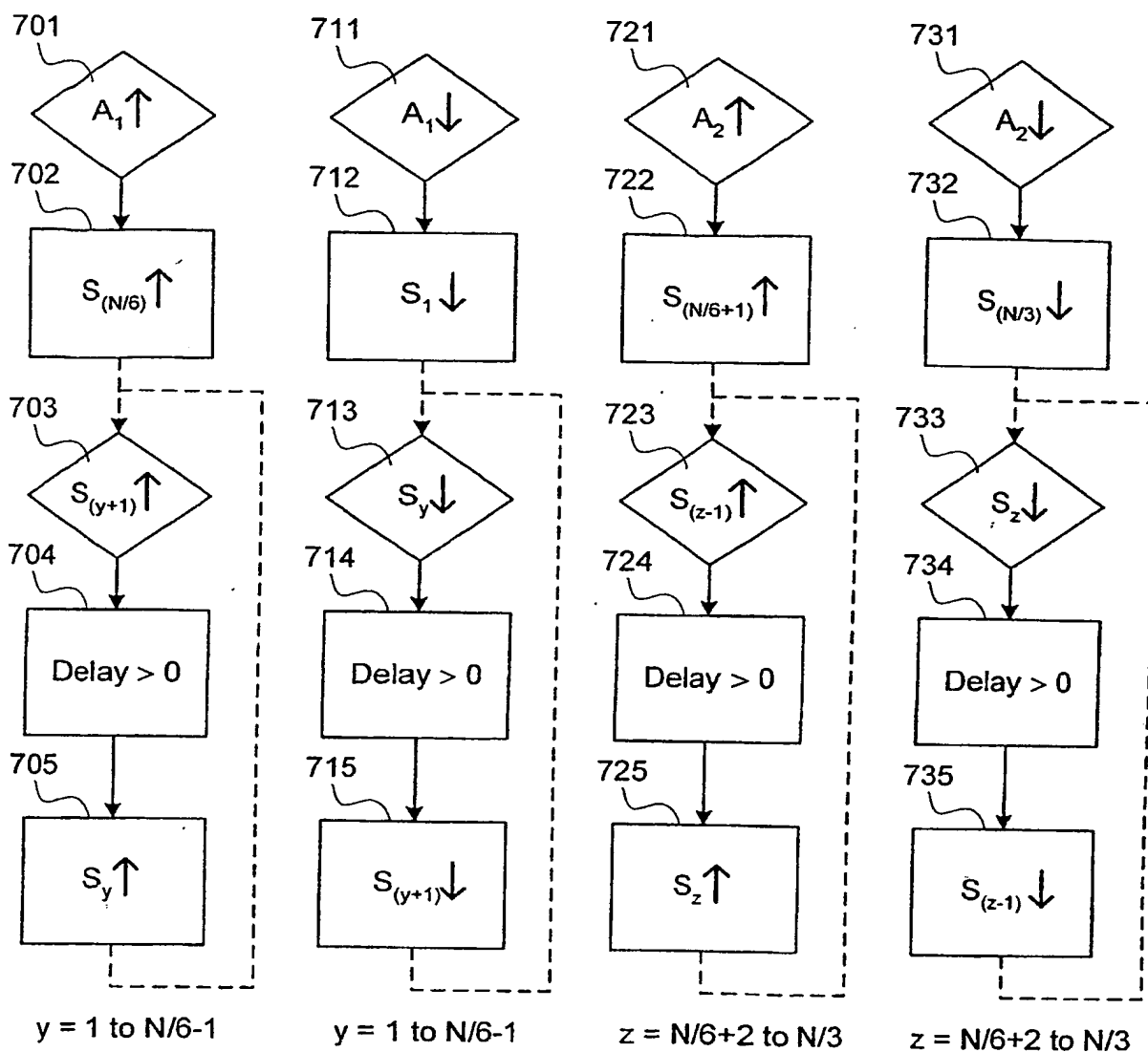


FIG. 7A

FIG. 7B

FIG. 7C

FIG. 7D

FIG. 8A

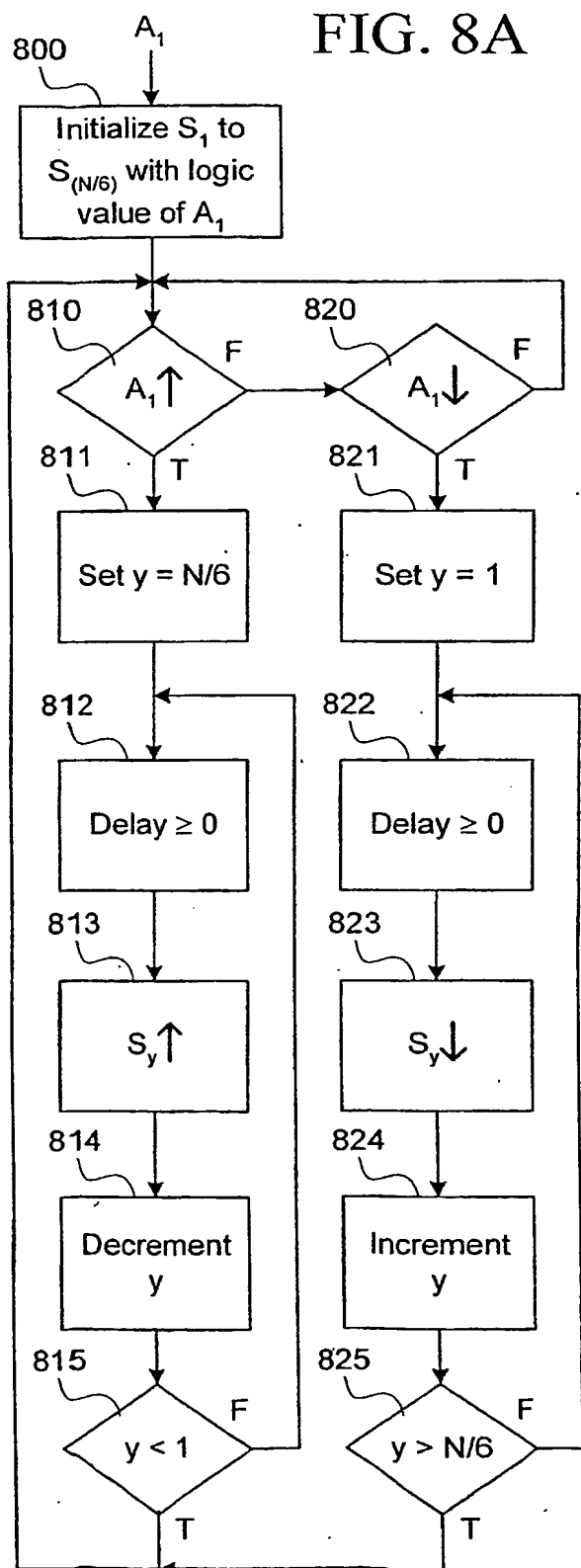


FIG. 8B

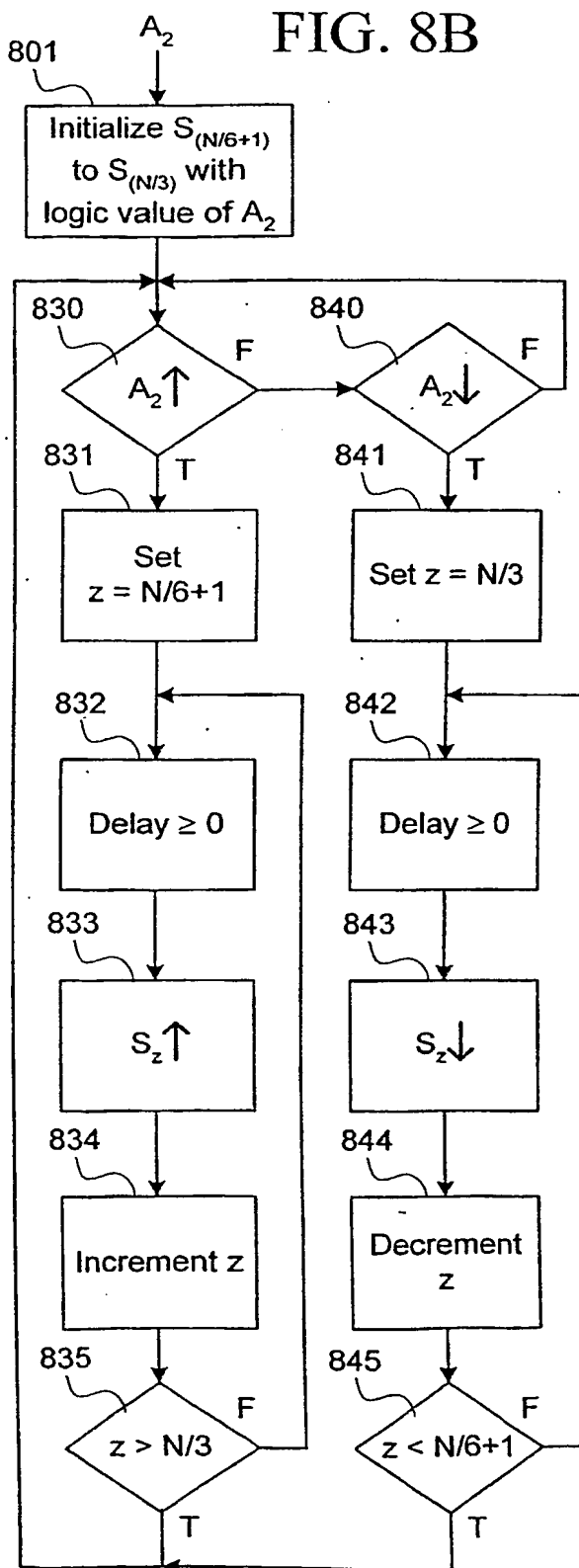


FIG. 9A

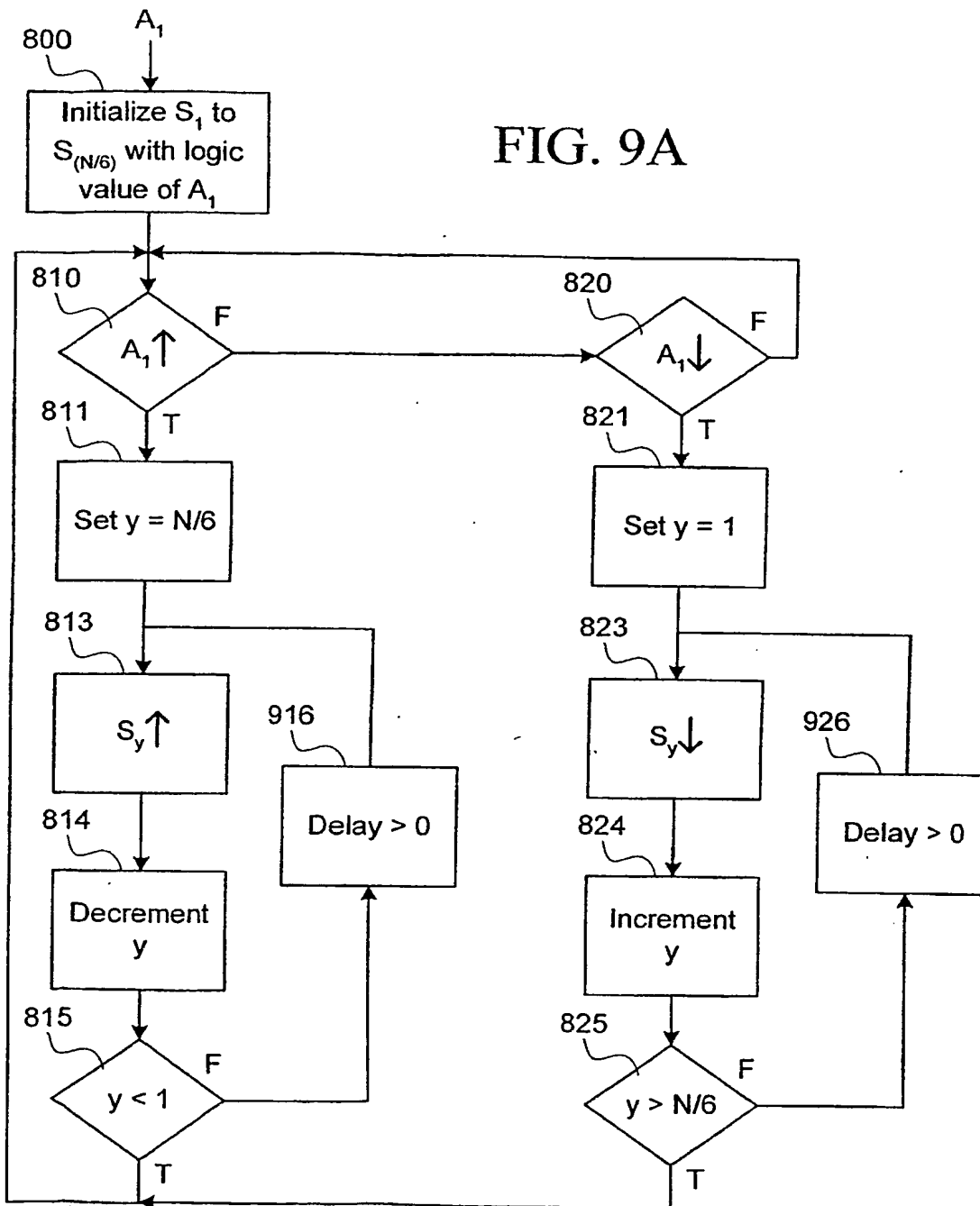
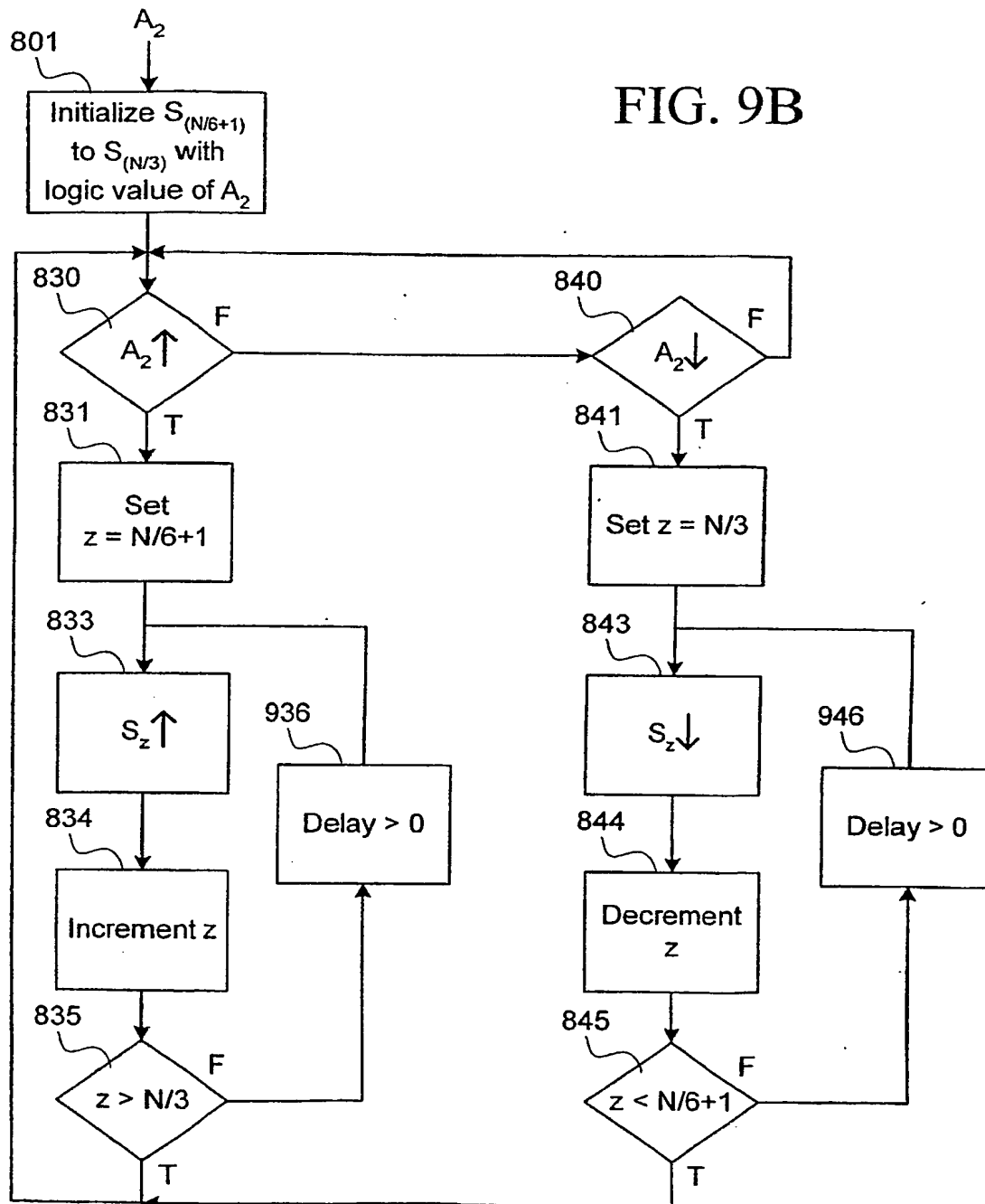


FIG. 9B



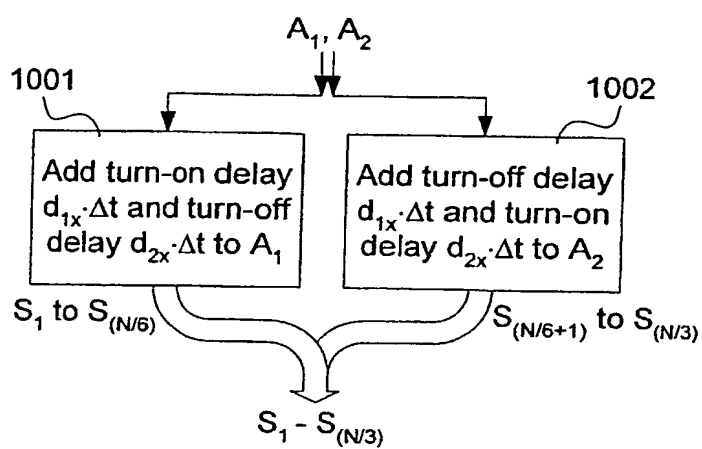


FIG. 10

FIG. 11

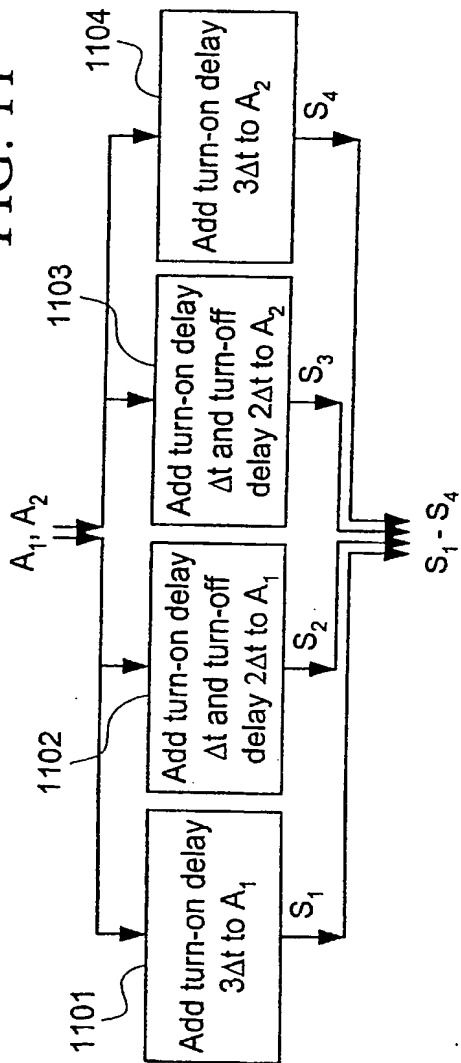


FIG. 12

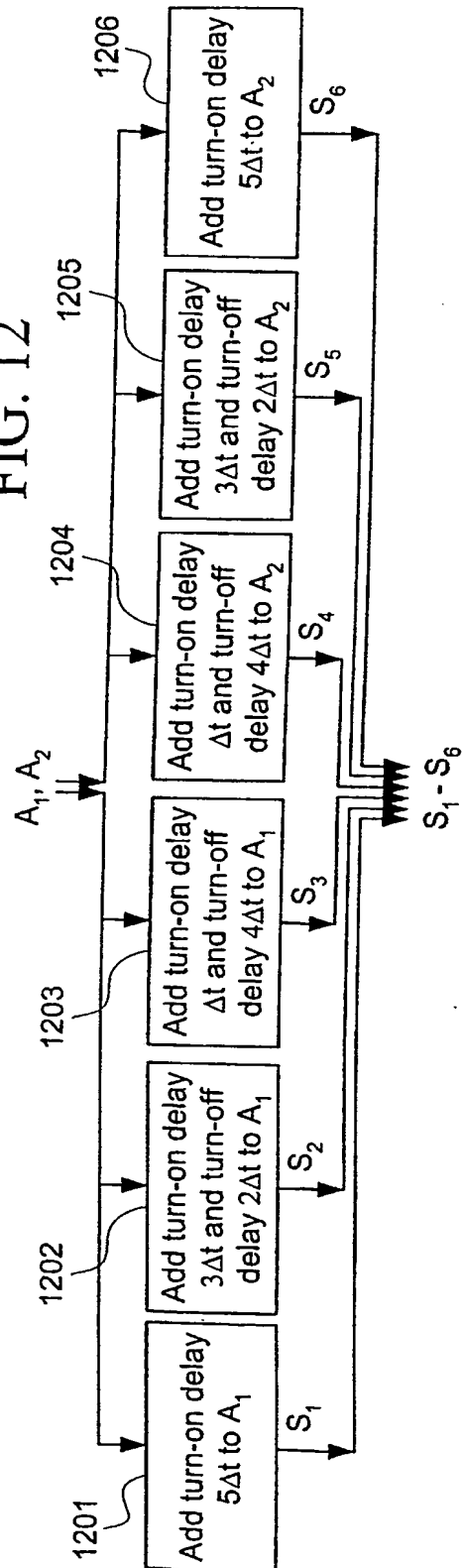
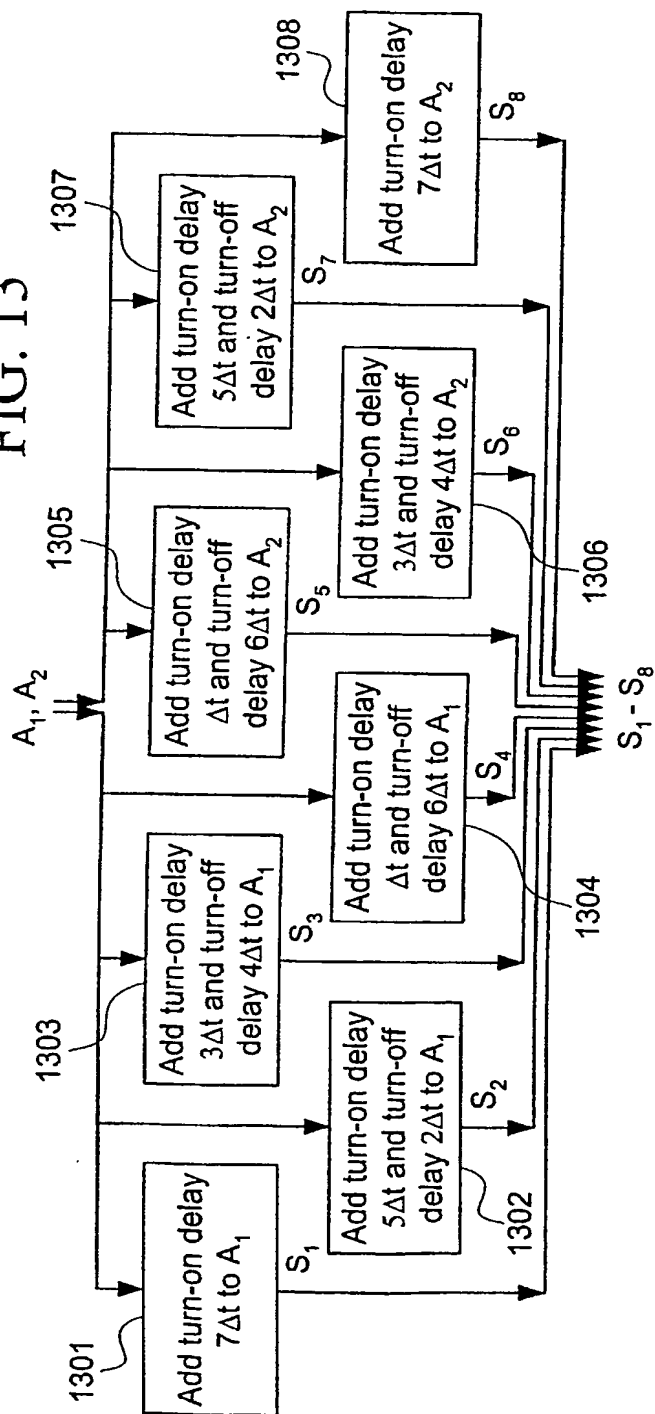


FIG. 13



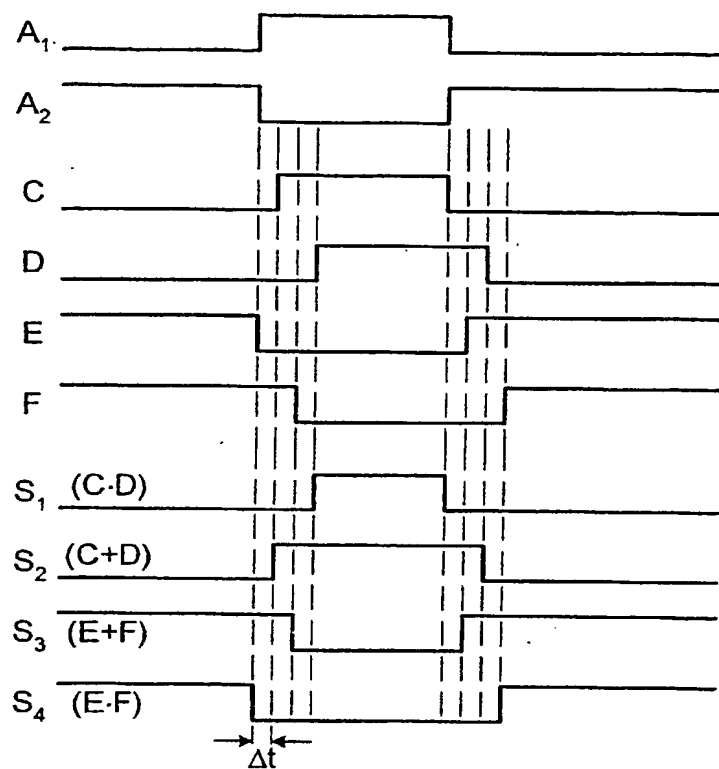


FIG. 14

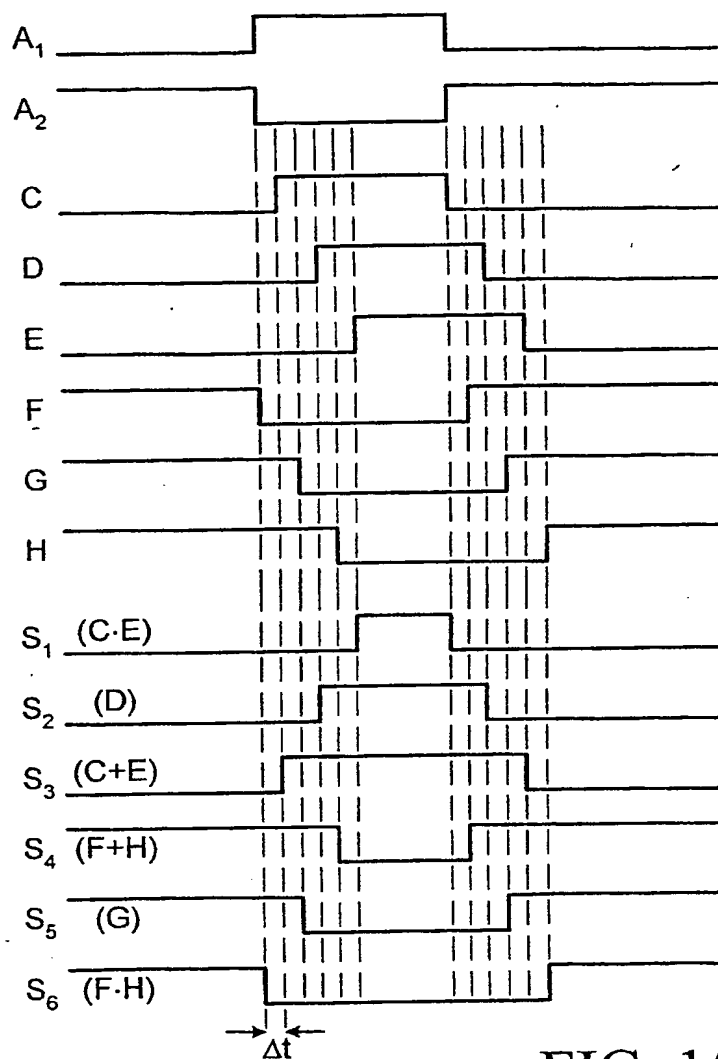


FIG. 15

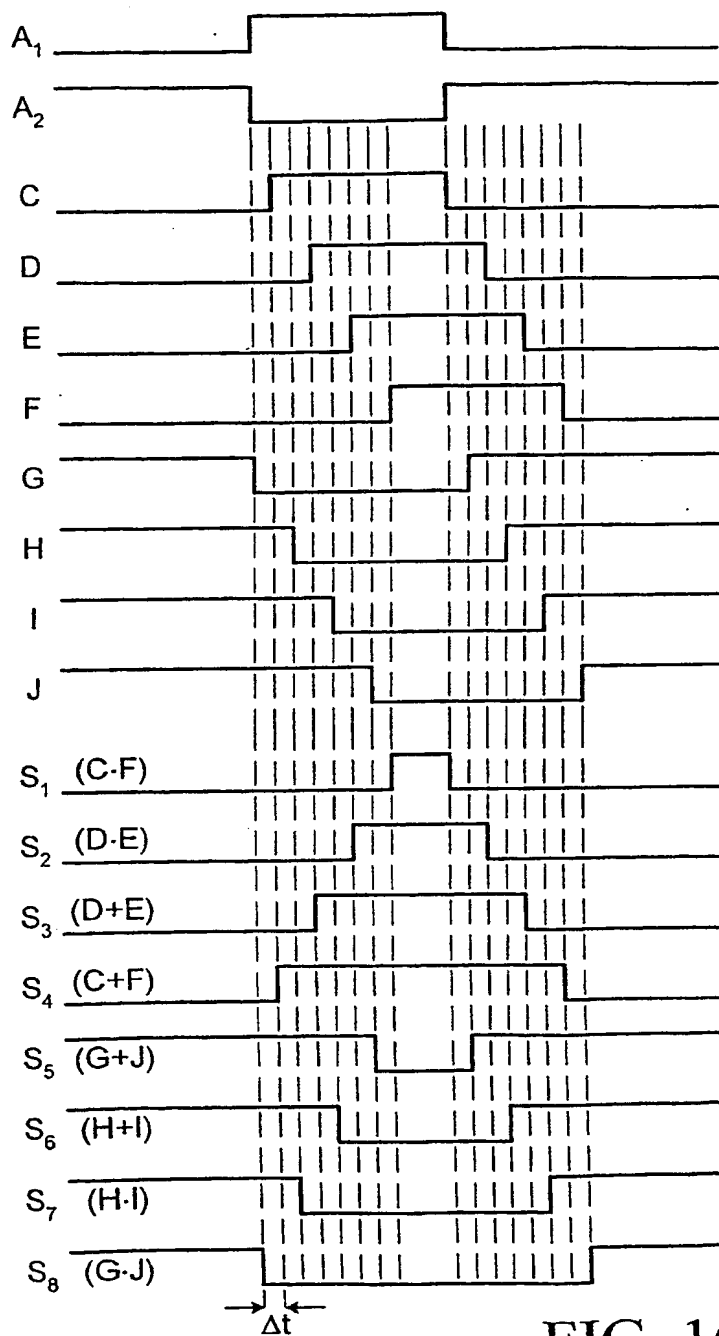


FIG. 16

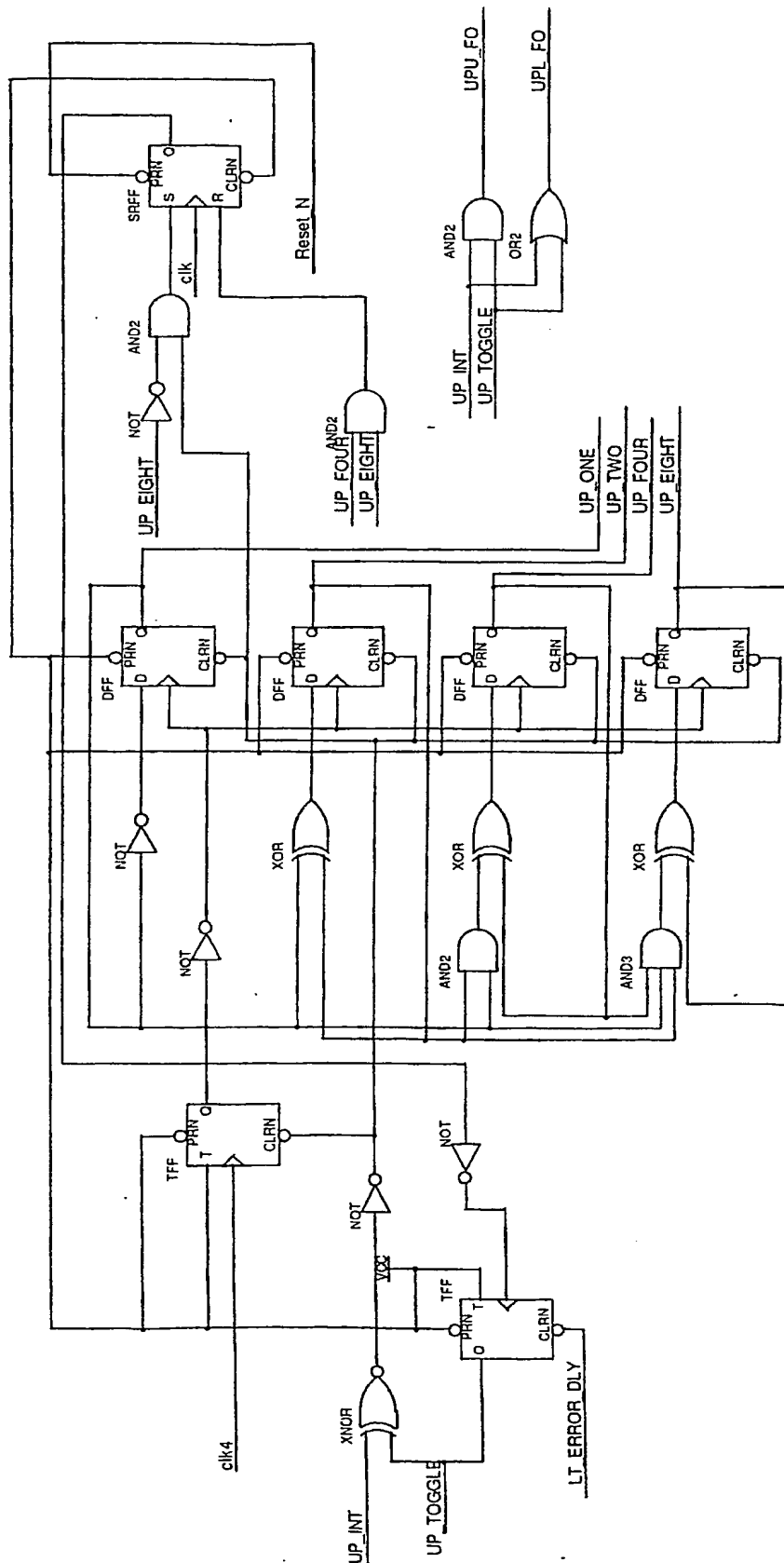


FIG. 17A

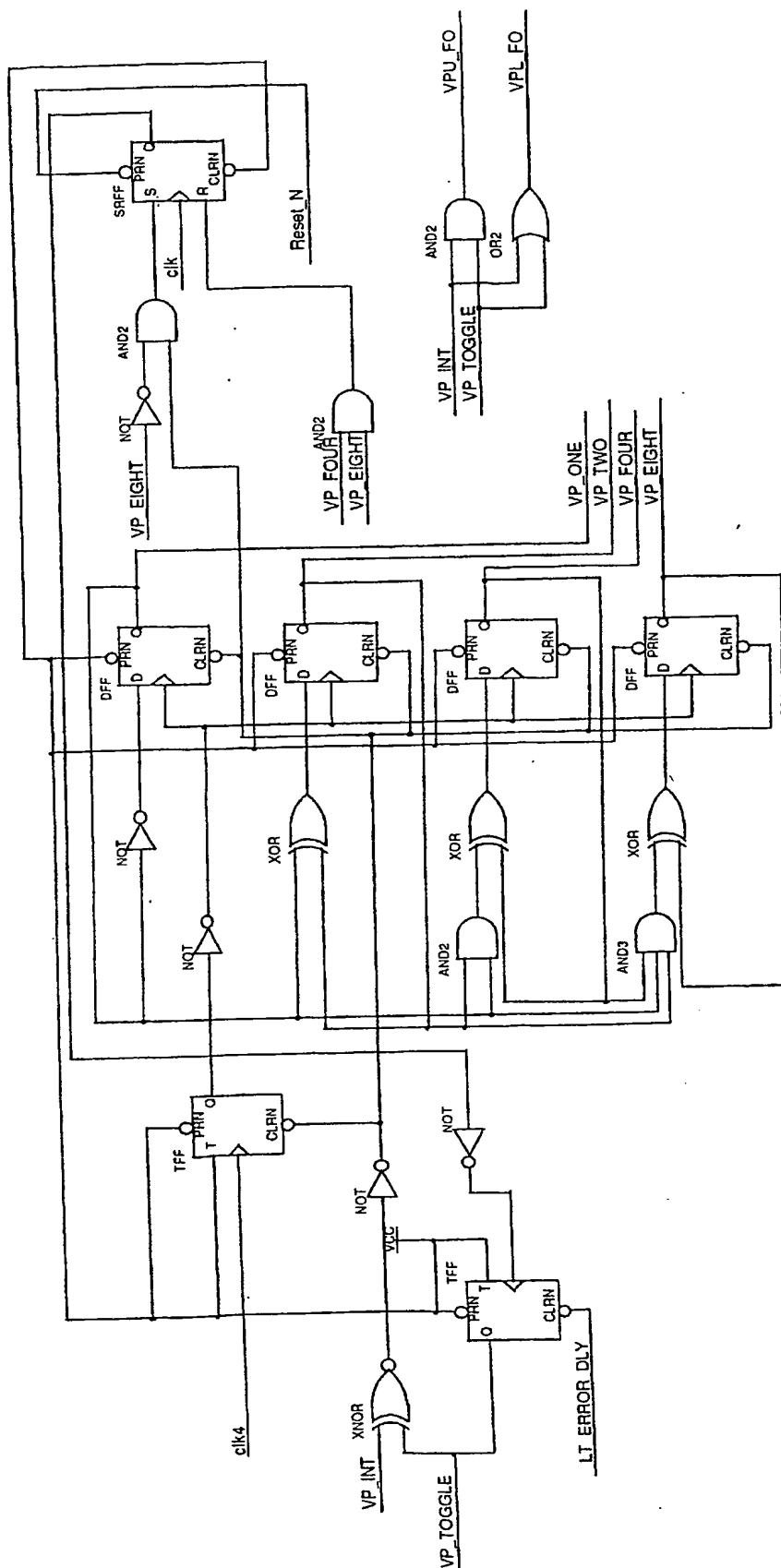


FIG. 17B

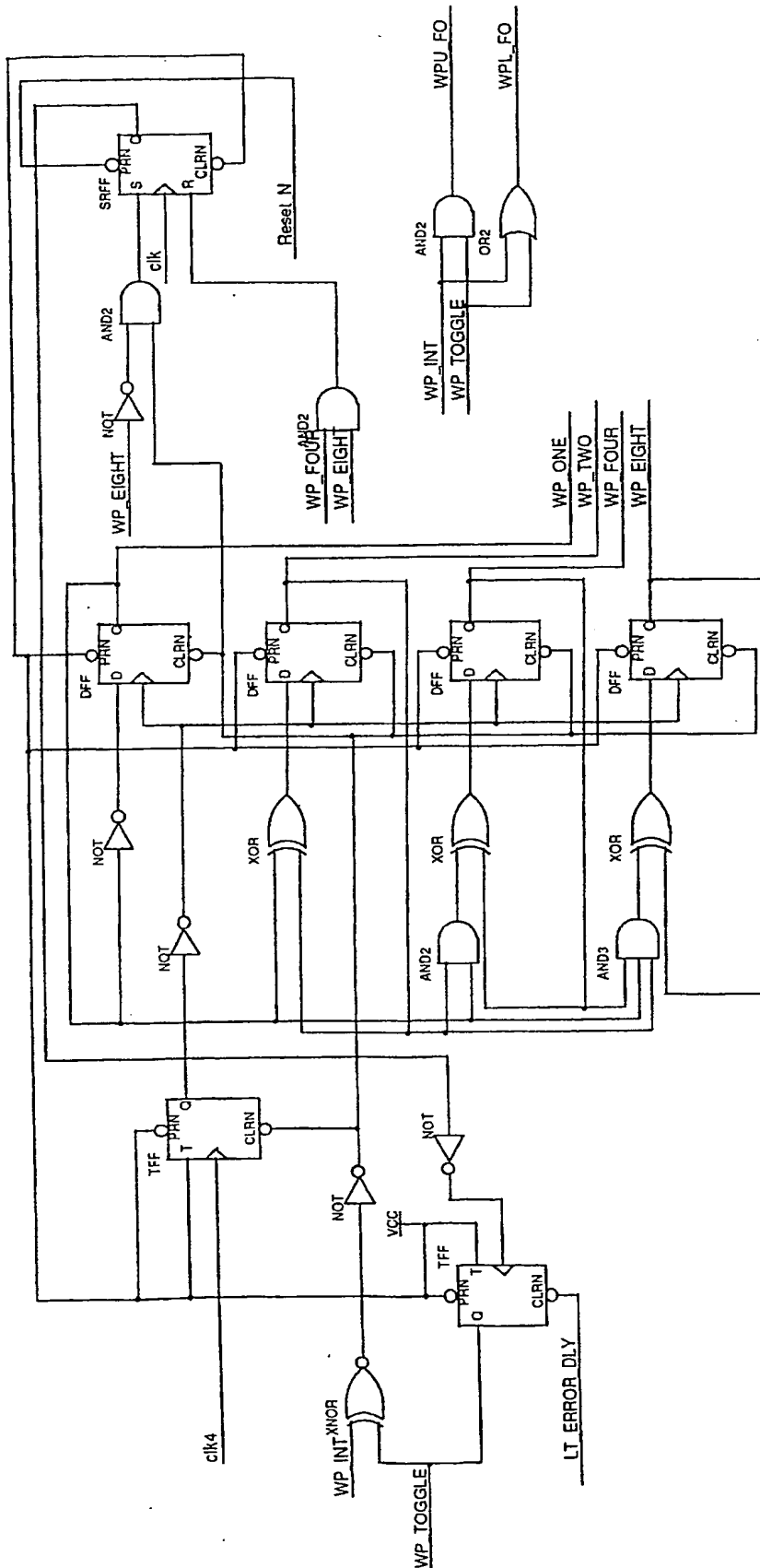


FIG. 17C

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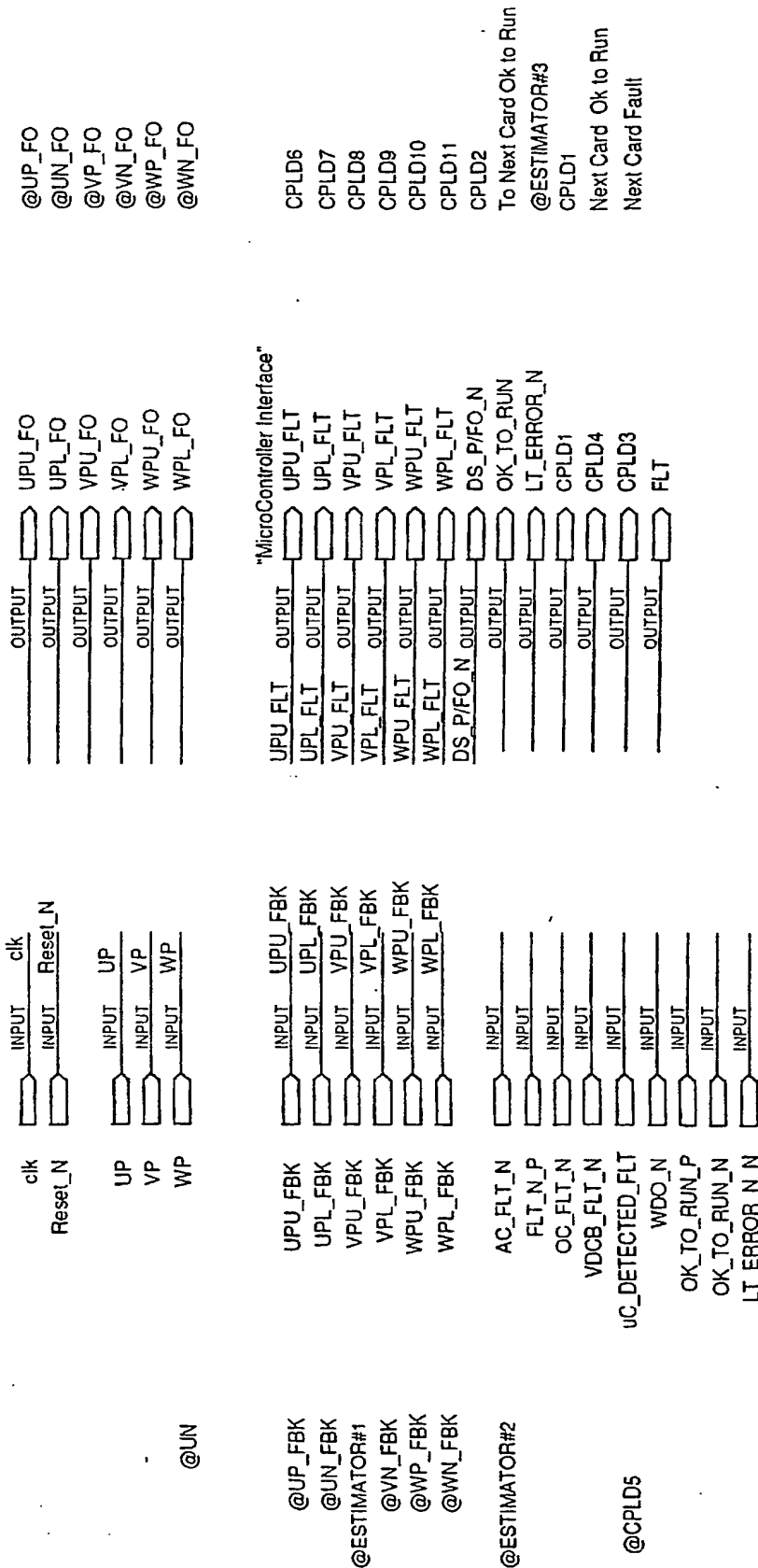


FIG. 17D

FIG. 17E

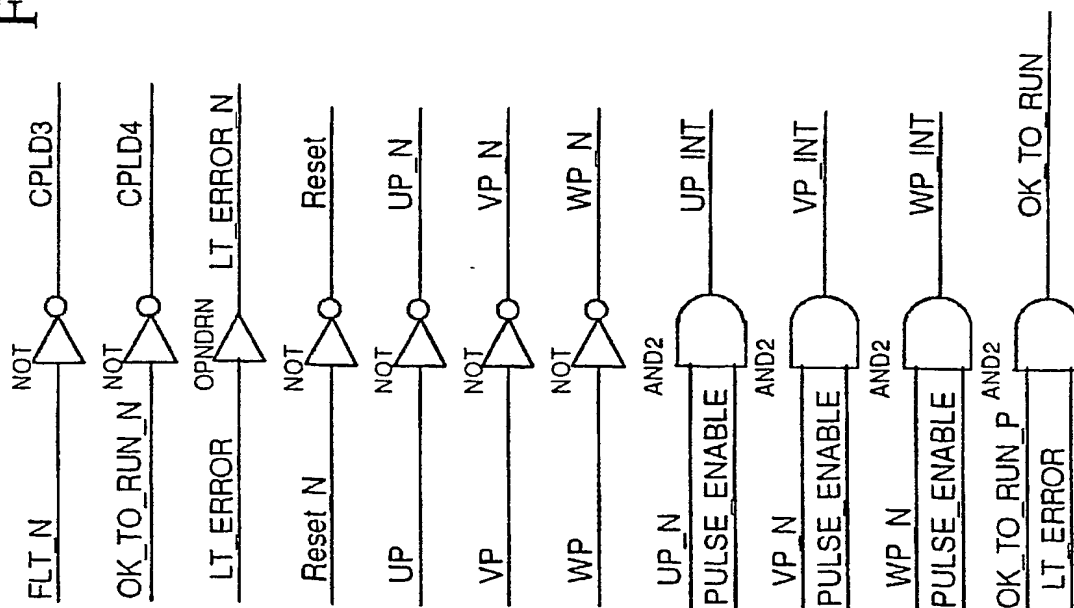
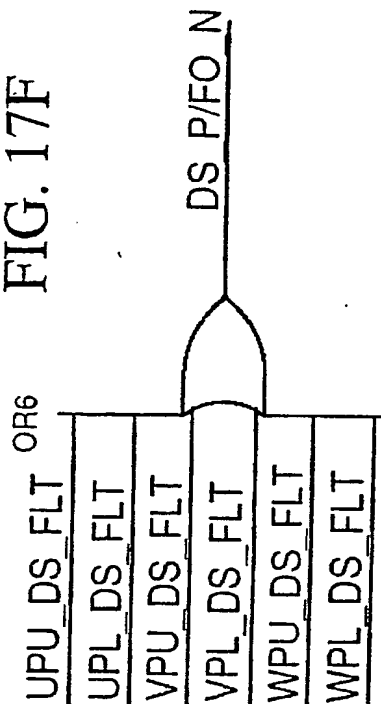


FIG. 17F



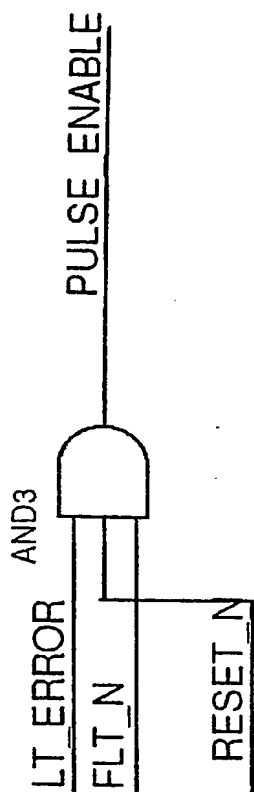


FIG. 17G

FIG. 17H

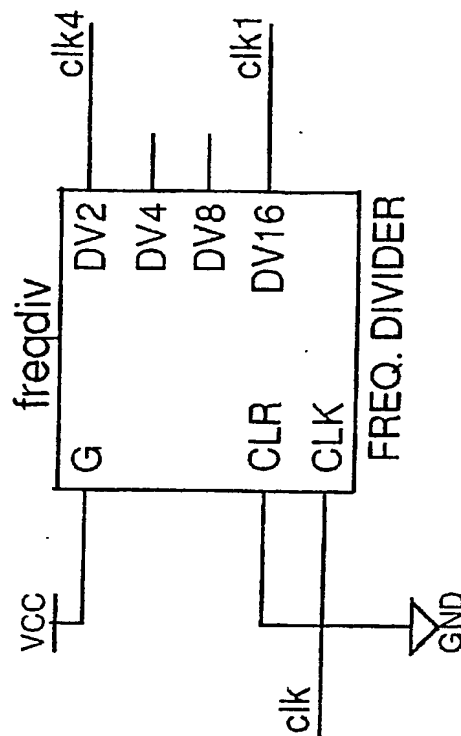


FIG. 17I

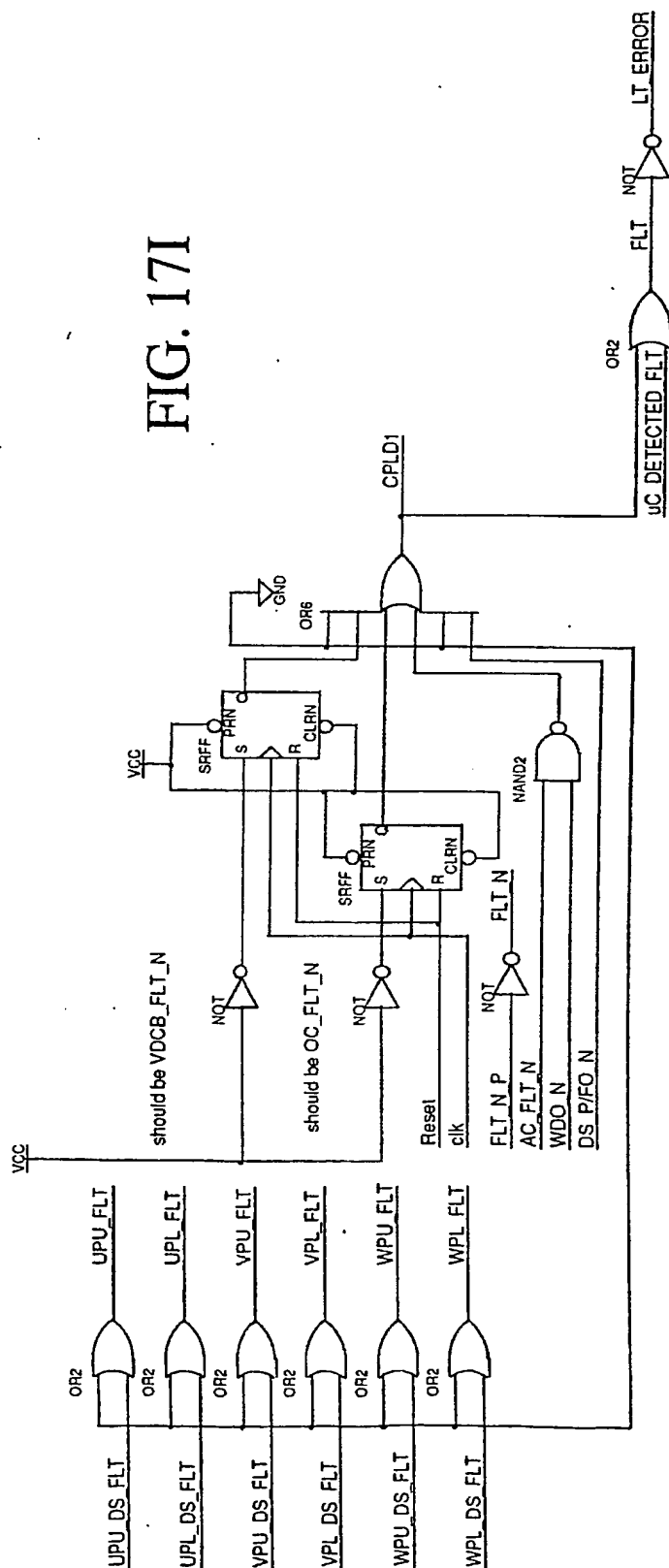


FIG. 17J

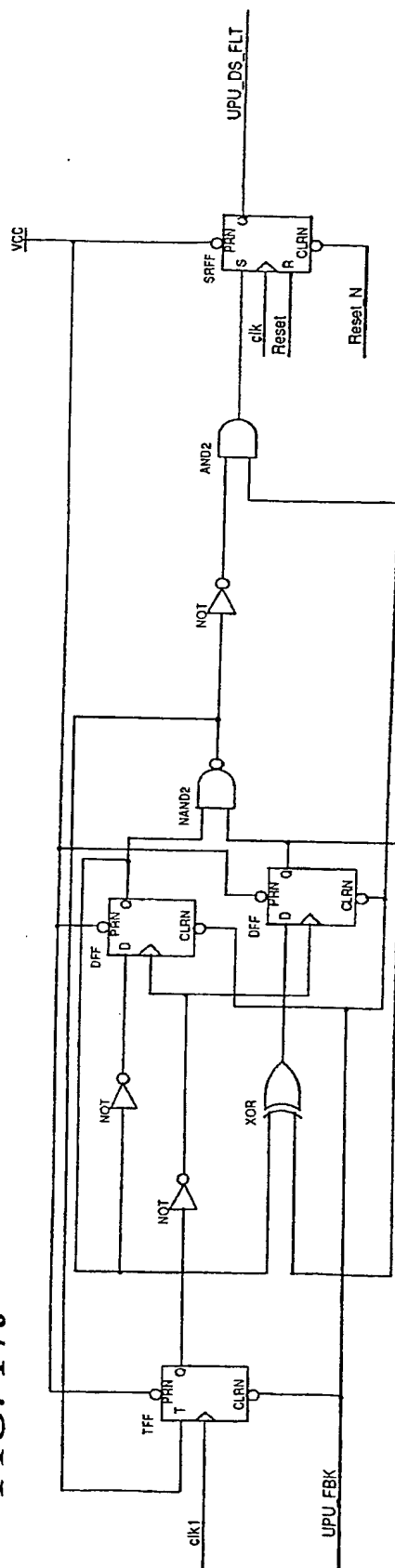


FIG. 17K

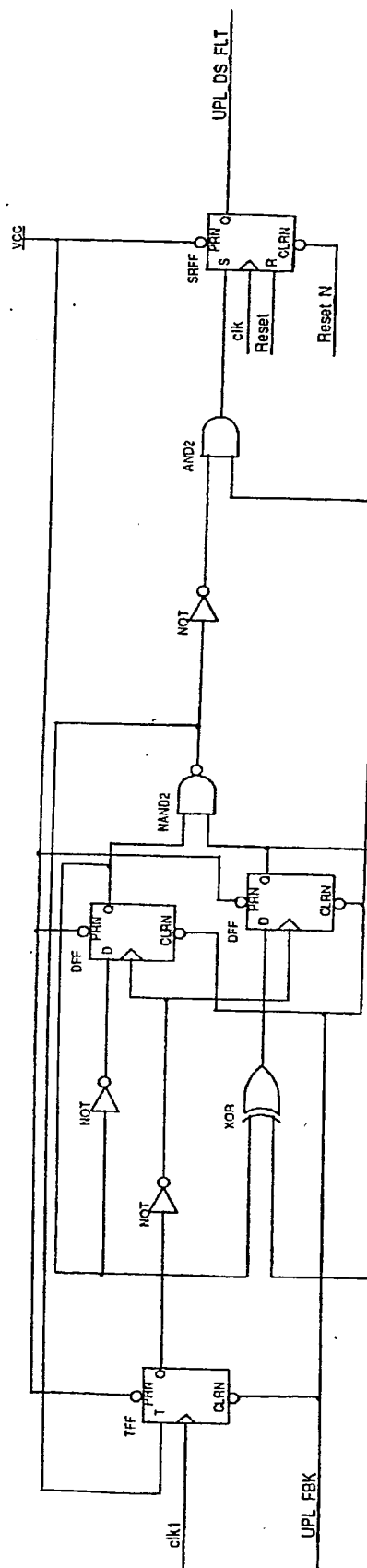
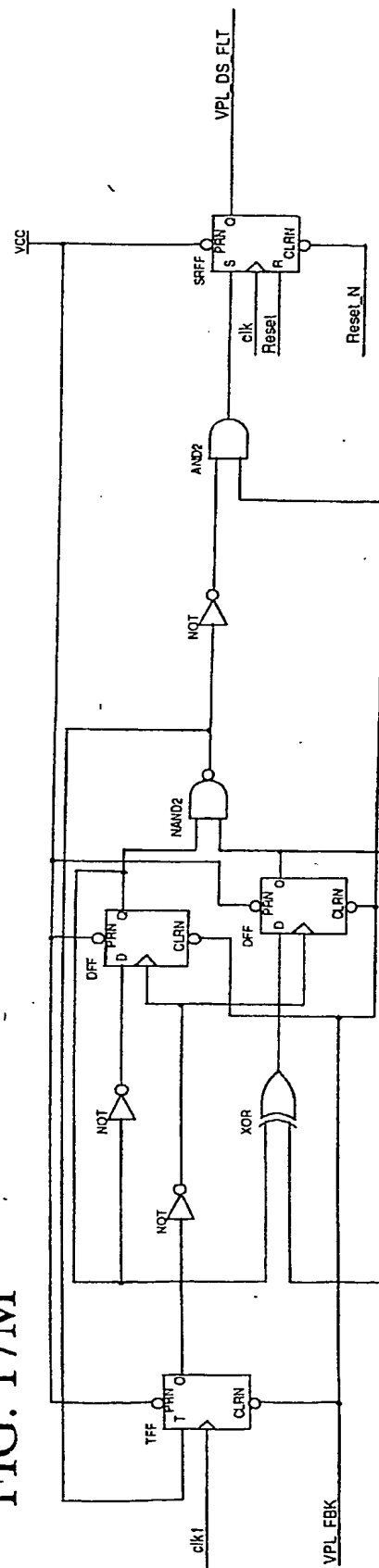
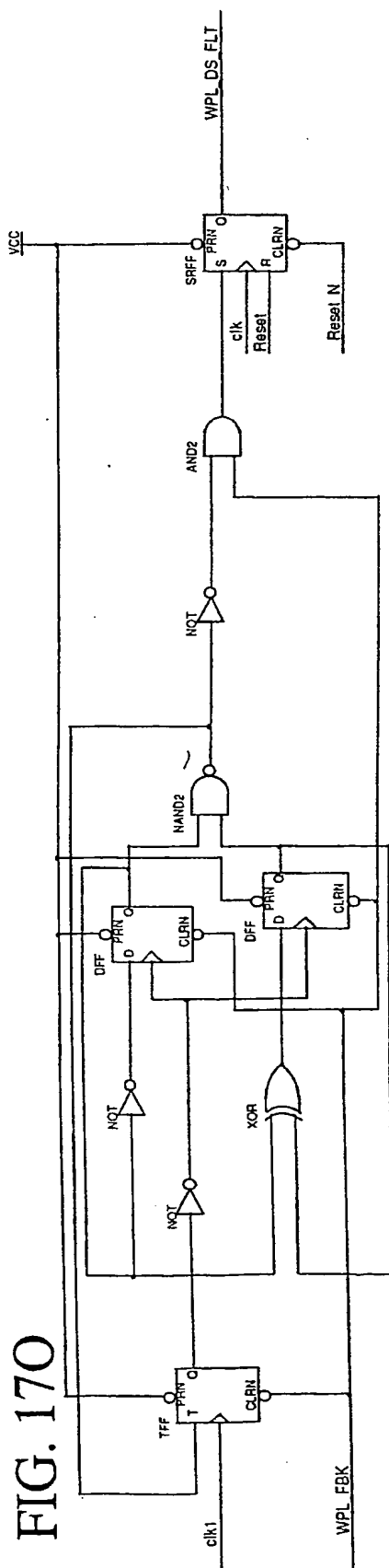
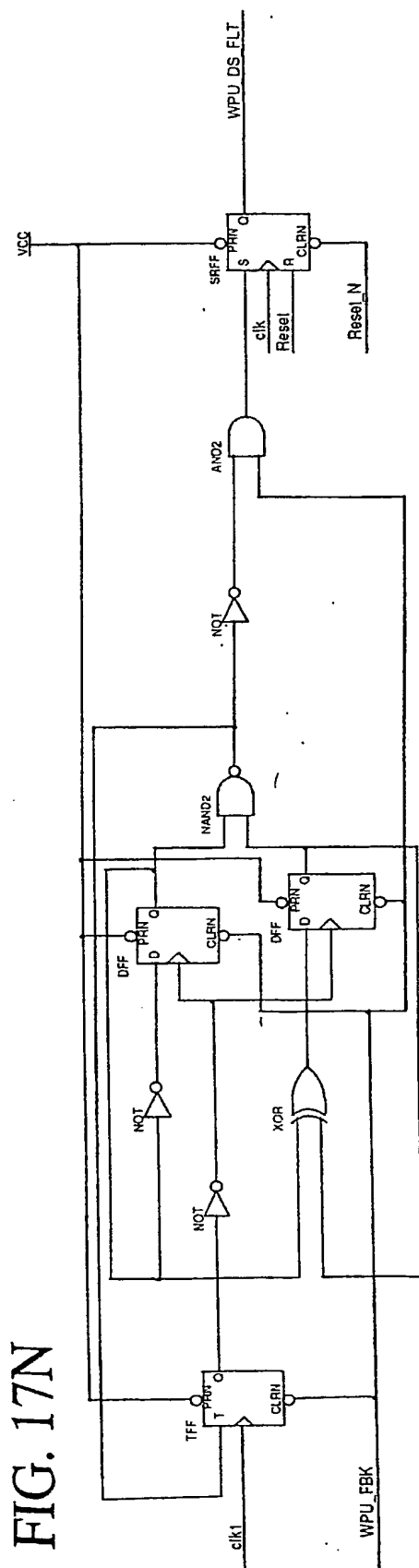


FIG. 17M





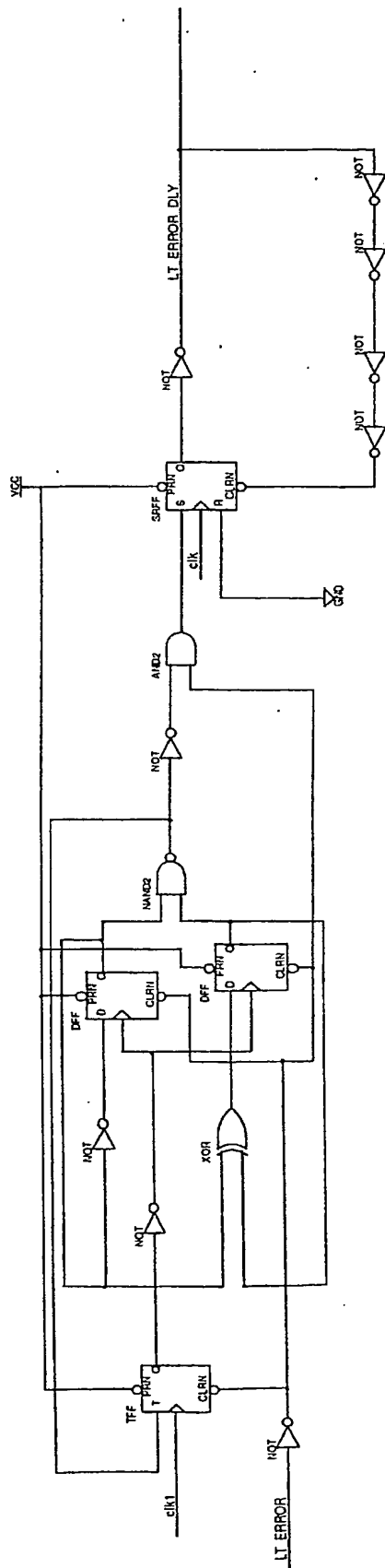


FIG. 17P

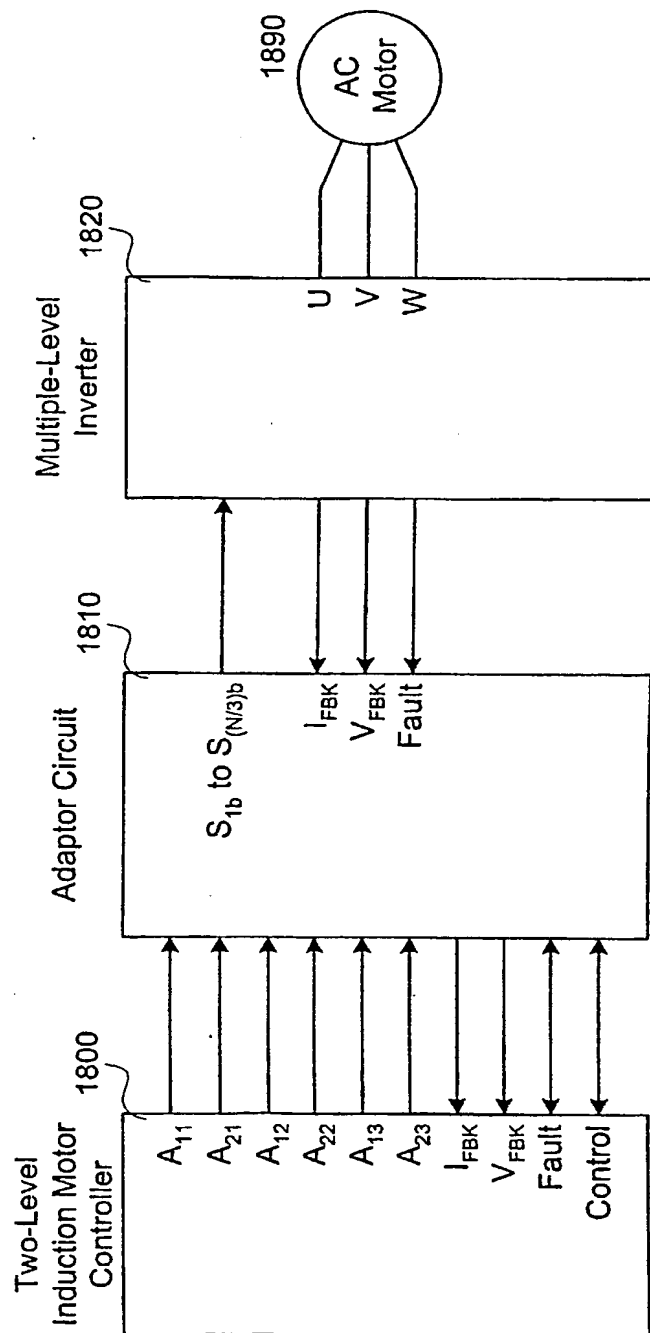


FIG. 18

FIG. 19

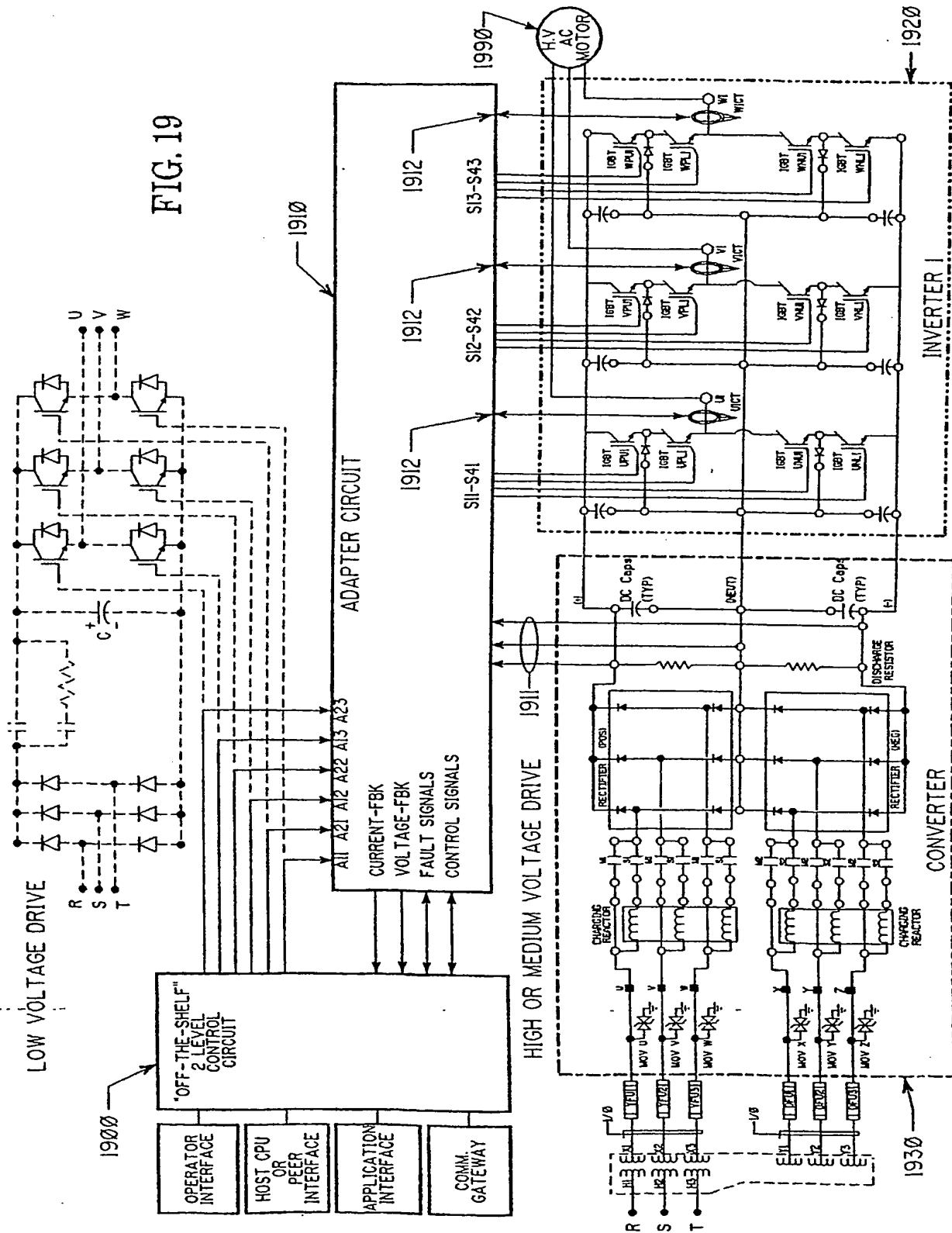


FIG. 20A

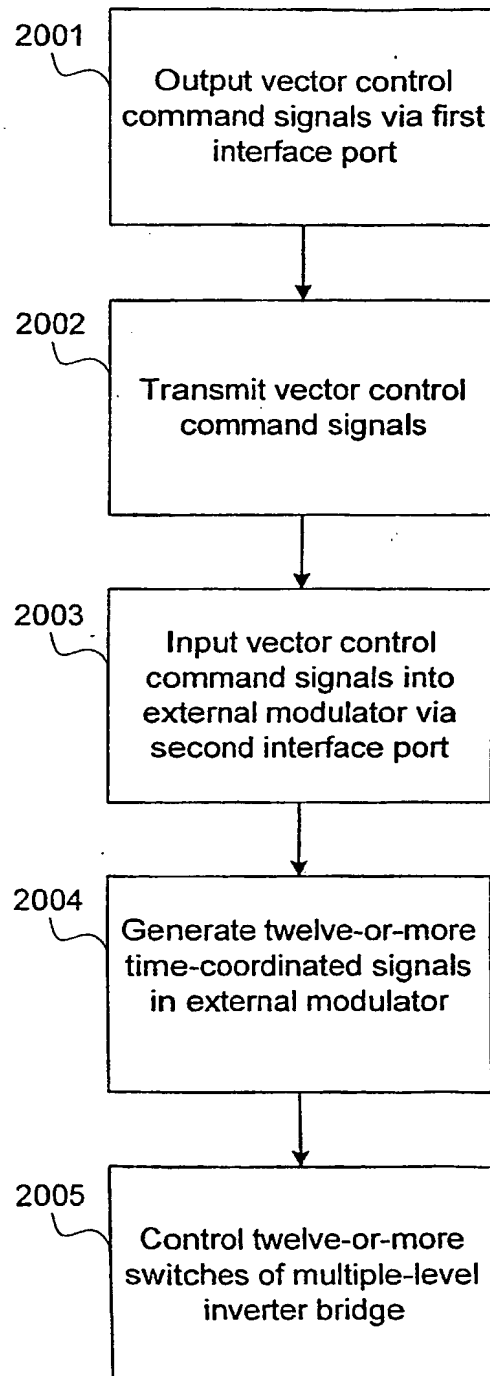
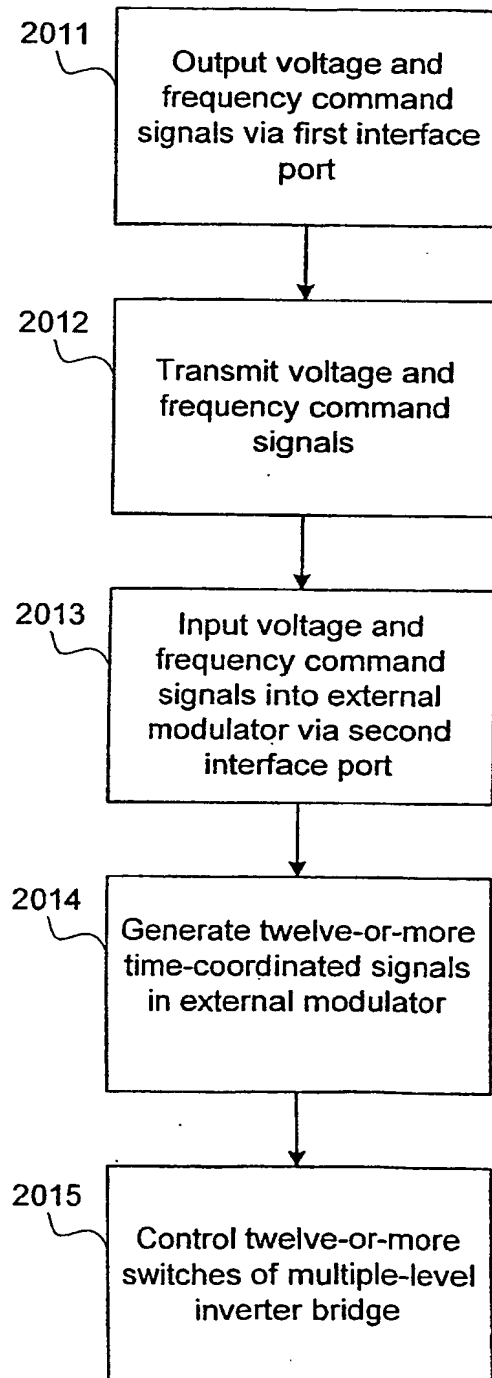


FIG. 20B



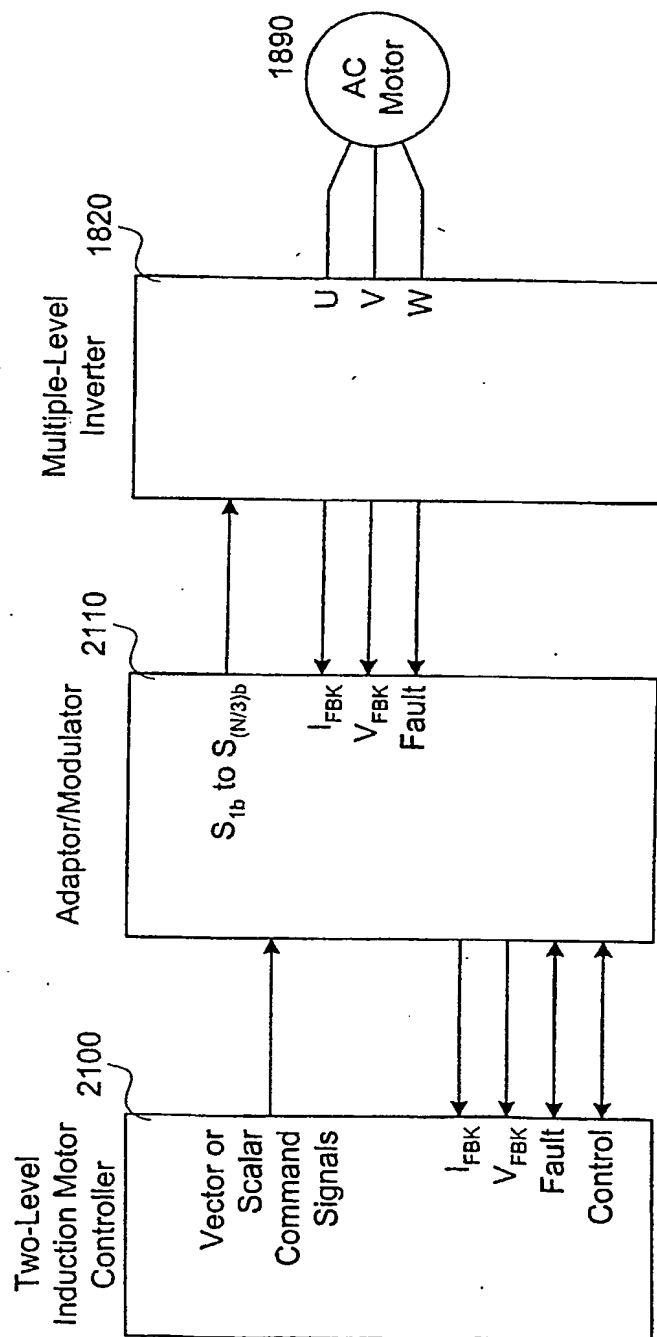
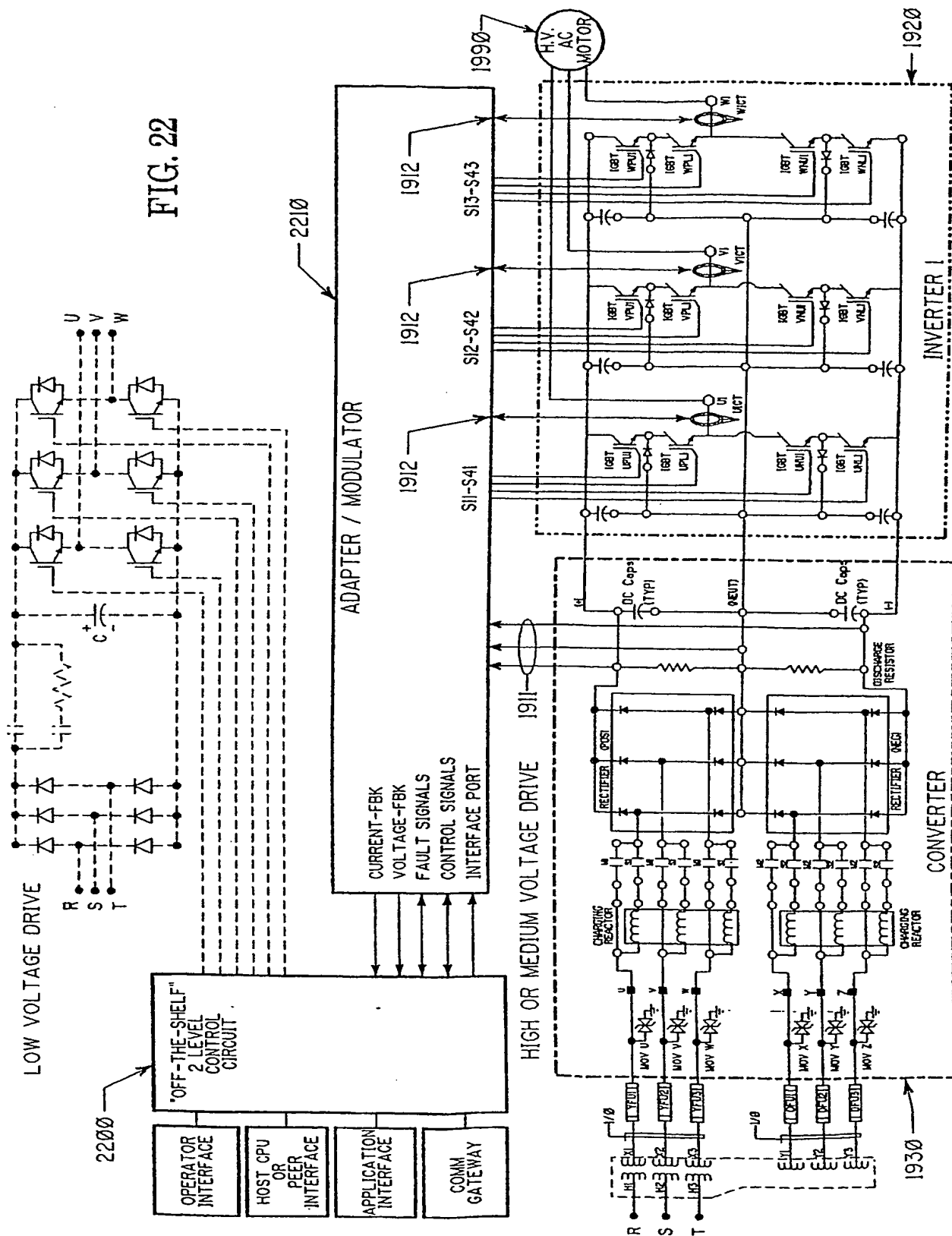


FIG. 21



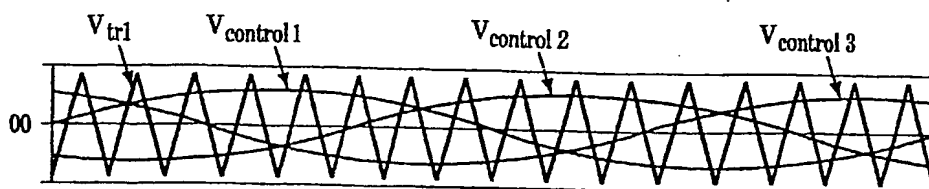


FIG. 23A

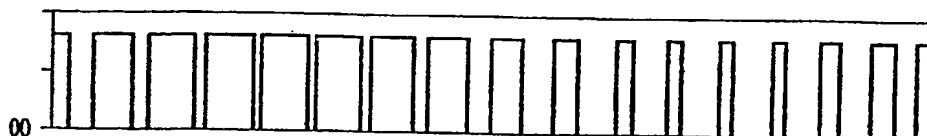


FIG. 23B

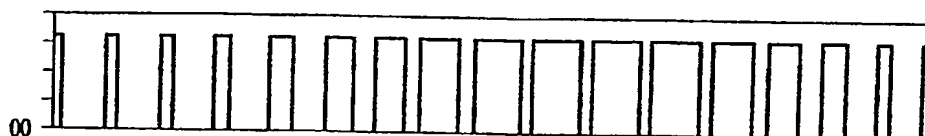


FIG. 23C

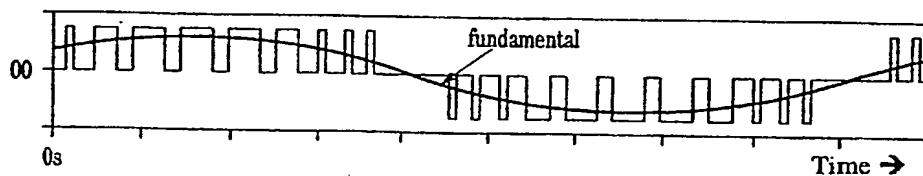


FIG. 24

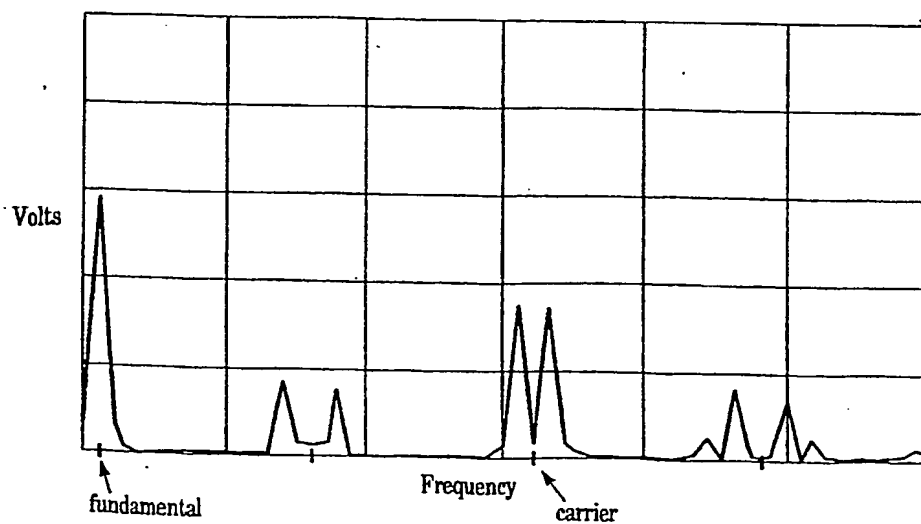


FIG. 25

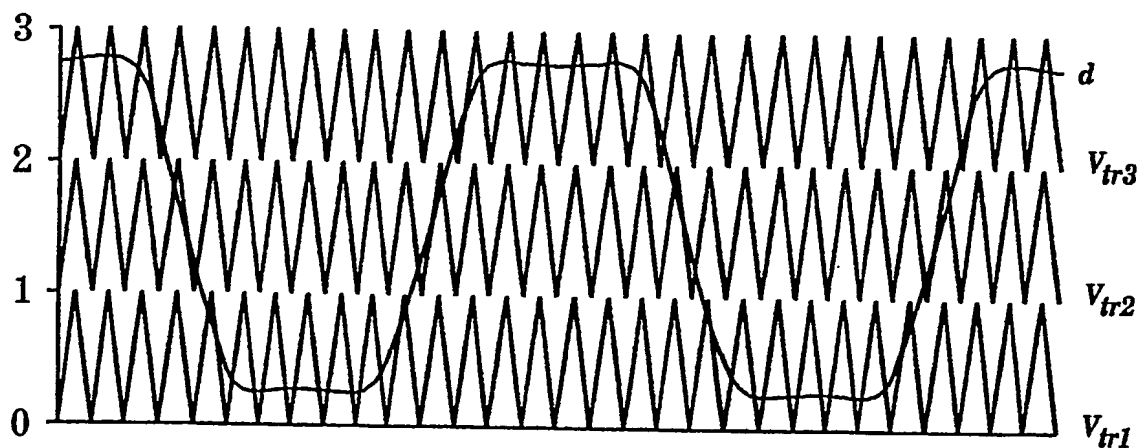


FIG. 26A

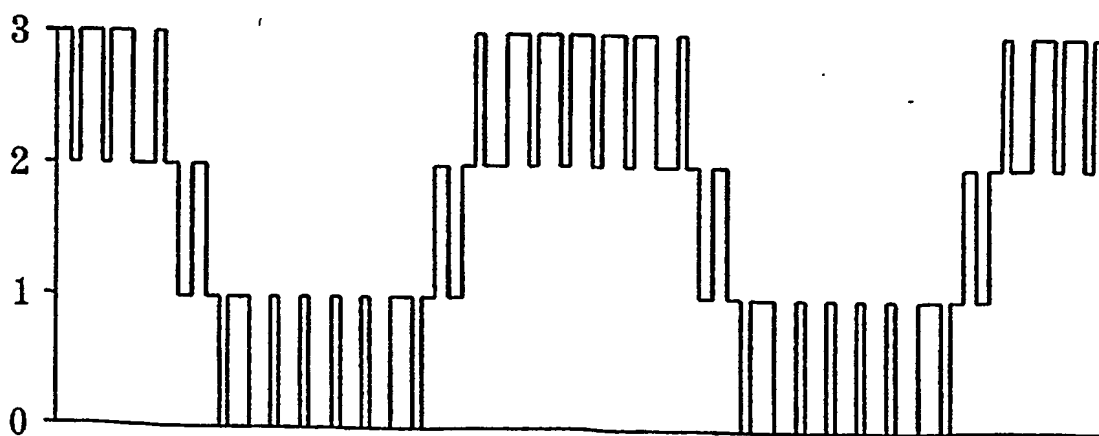
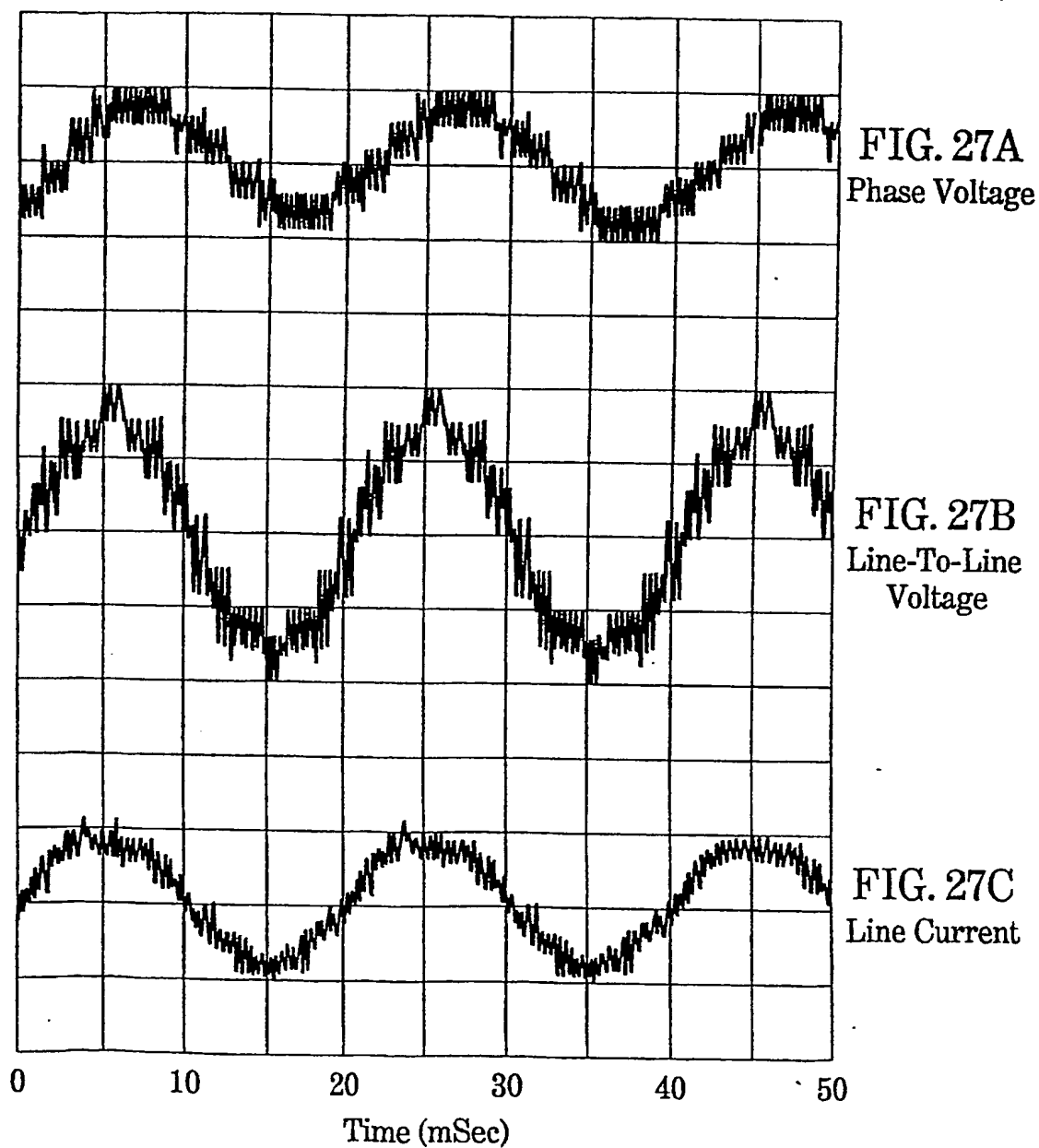


FIG. 26B



SUBSTITUTE SHEET (RULE 26)

EQUIVALENT PARTIAL LOGIC IMPLEMENTED WITH ANALOG CIRCUIT

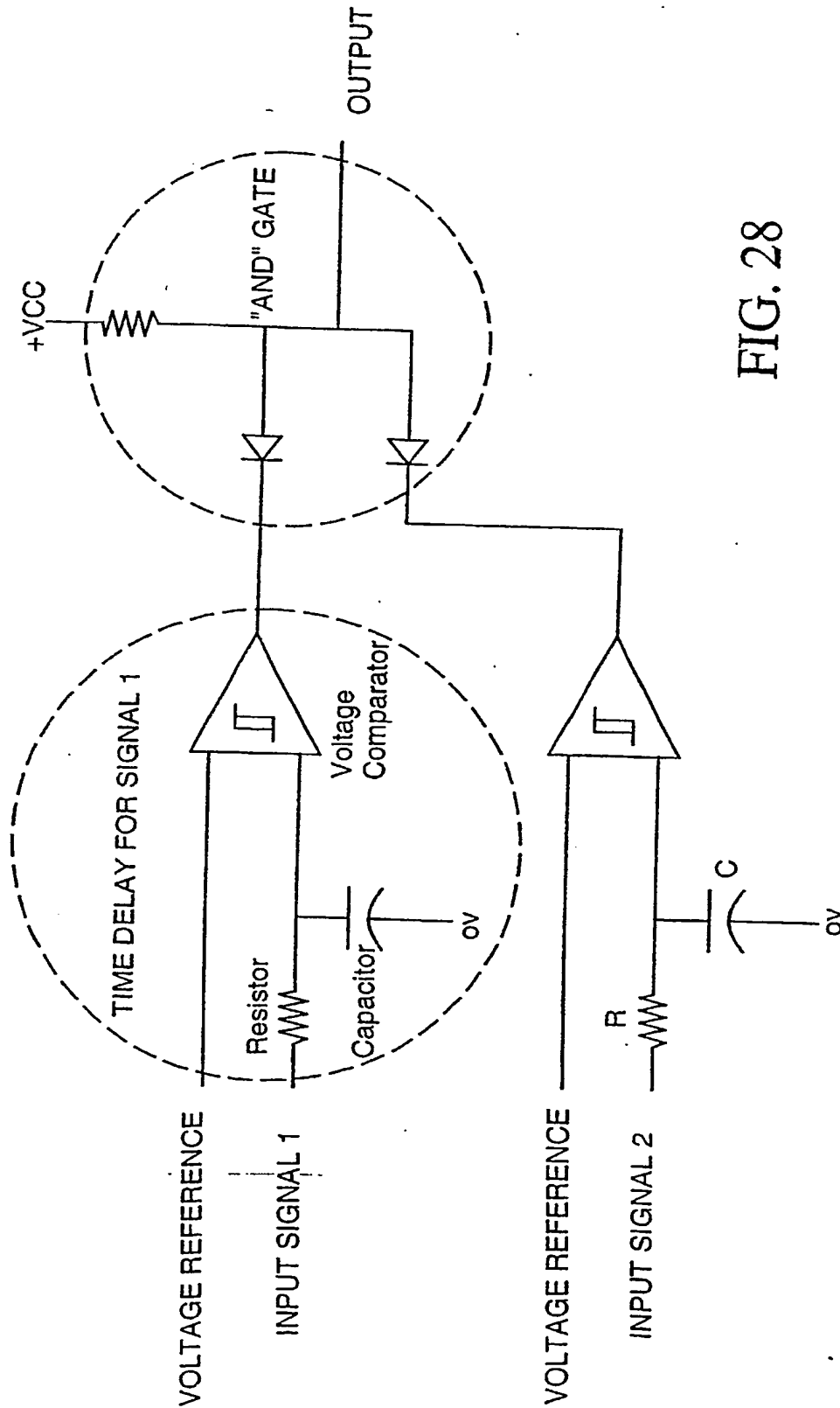


FIG. 28

Off-the-Shelf Induction Motor Controller with
Vector Control with Space Vector Modulator

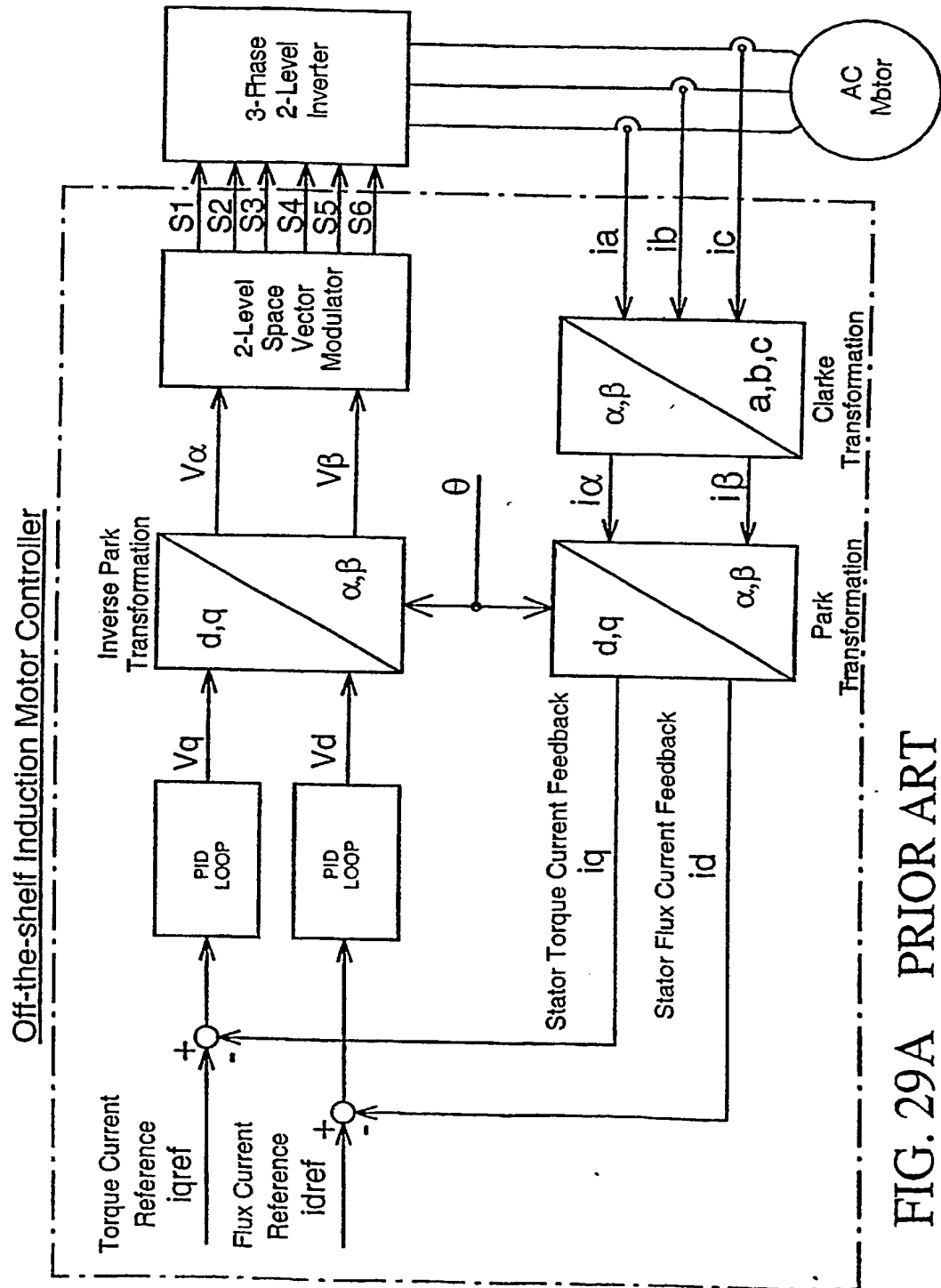


FIG. 29A PRIOR ART

Off-the-Shelf Induction Motor Controller with Vector Control with Sine-Triangle Modulator

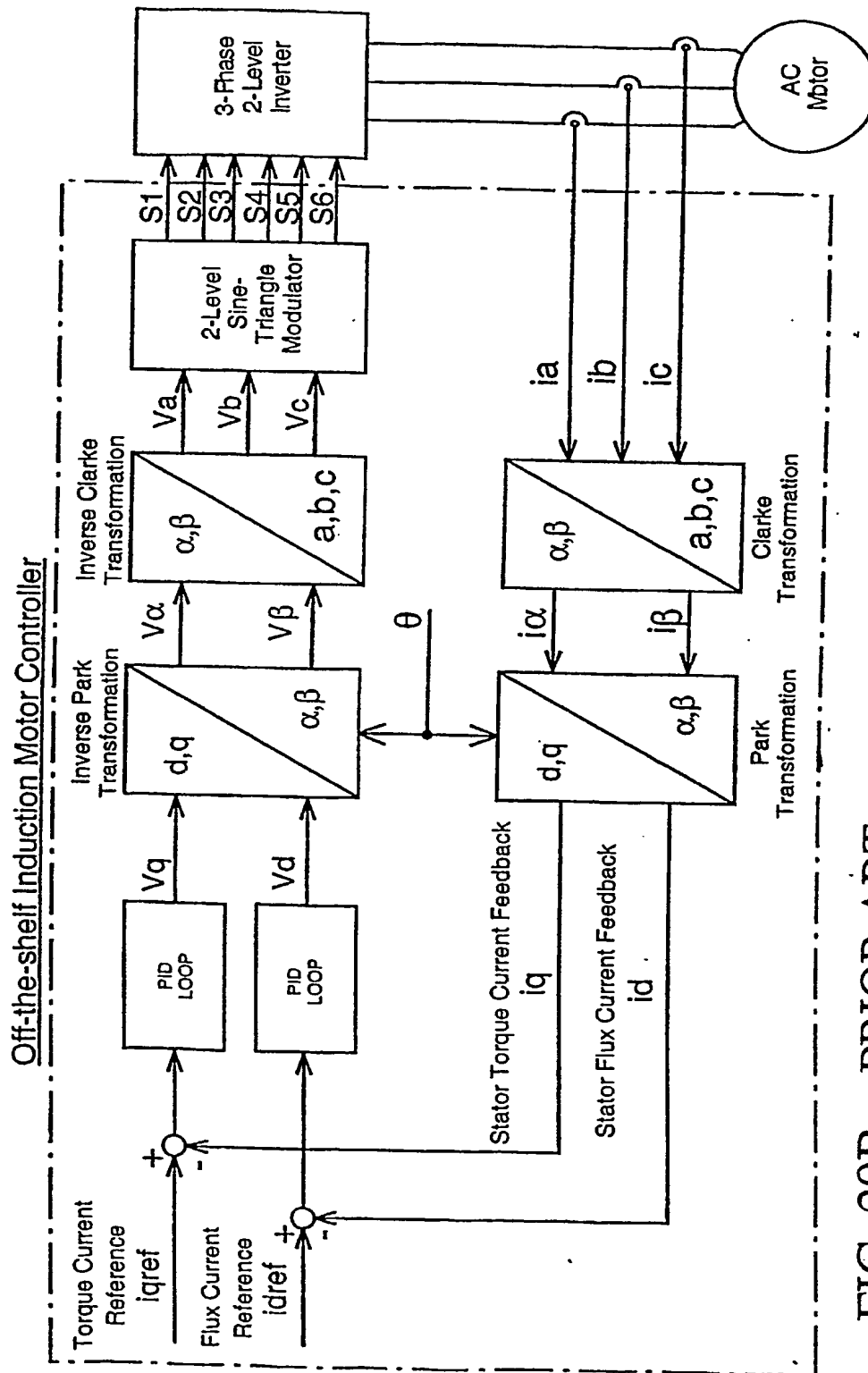


FIG. 29B PRIOR ART

Example of the Second Variation of the Invention with
Space Vector Modulator

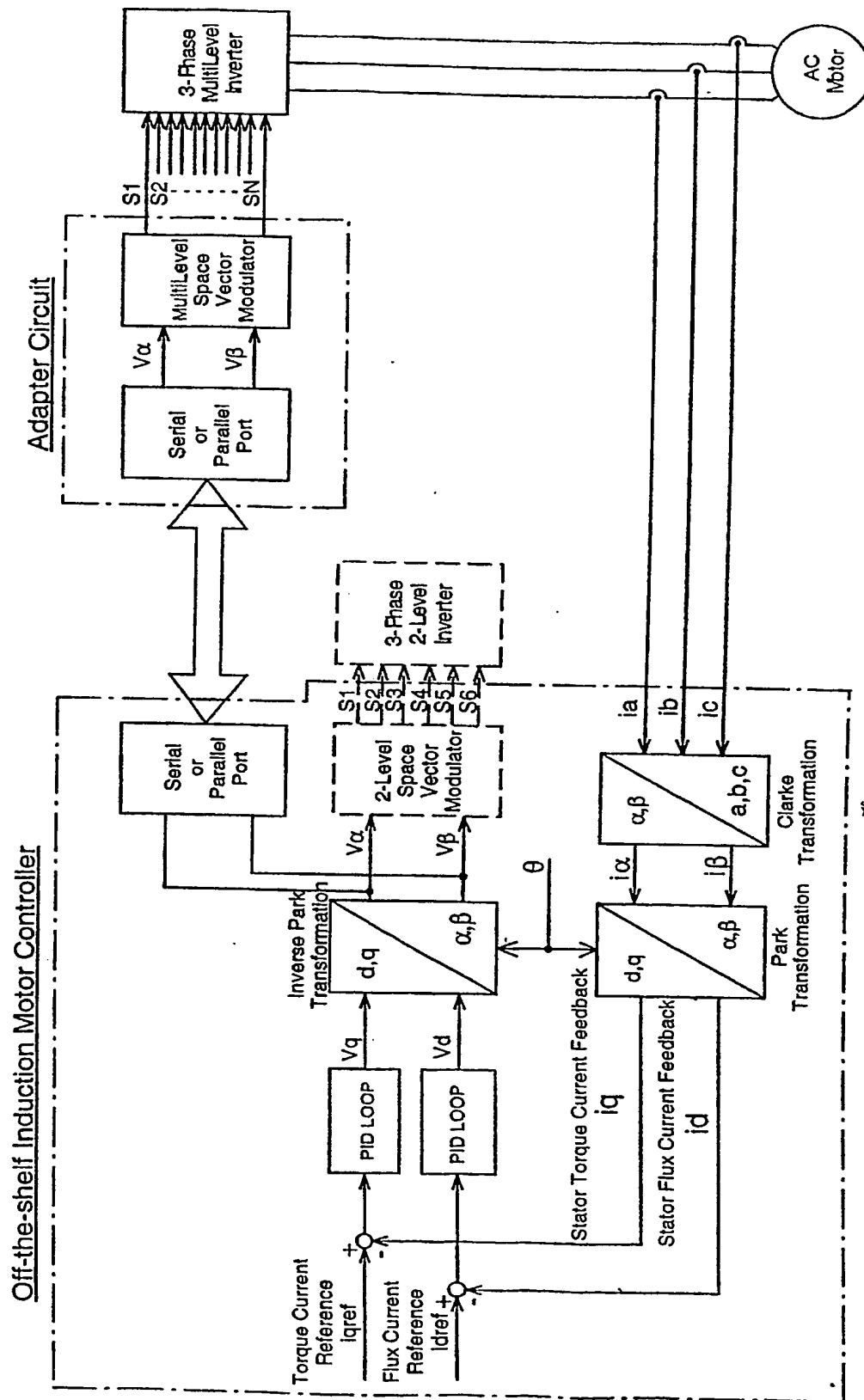


FIG. 30A

Example of the Second Variation of the Invention with Sine-Triangle Modulator

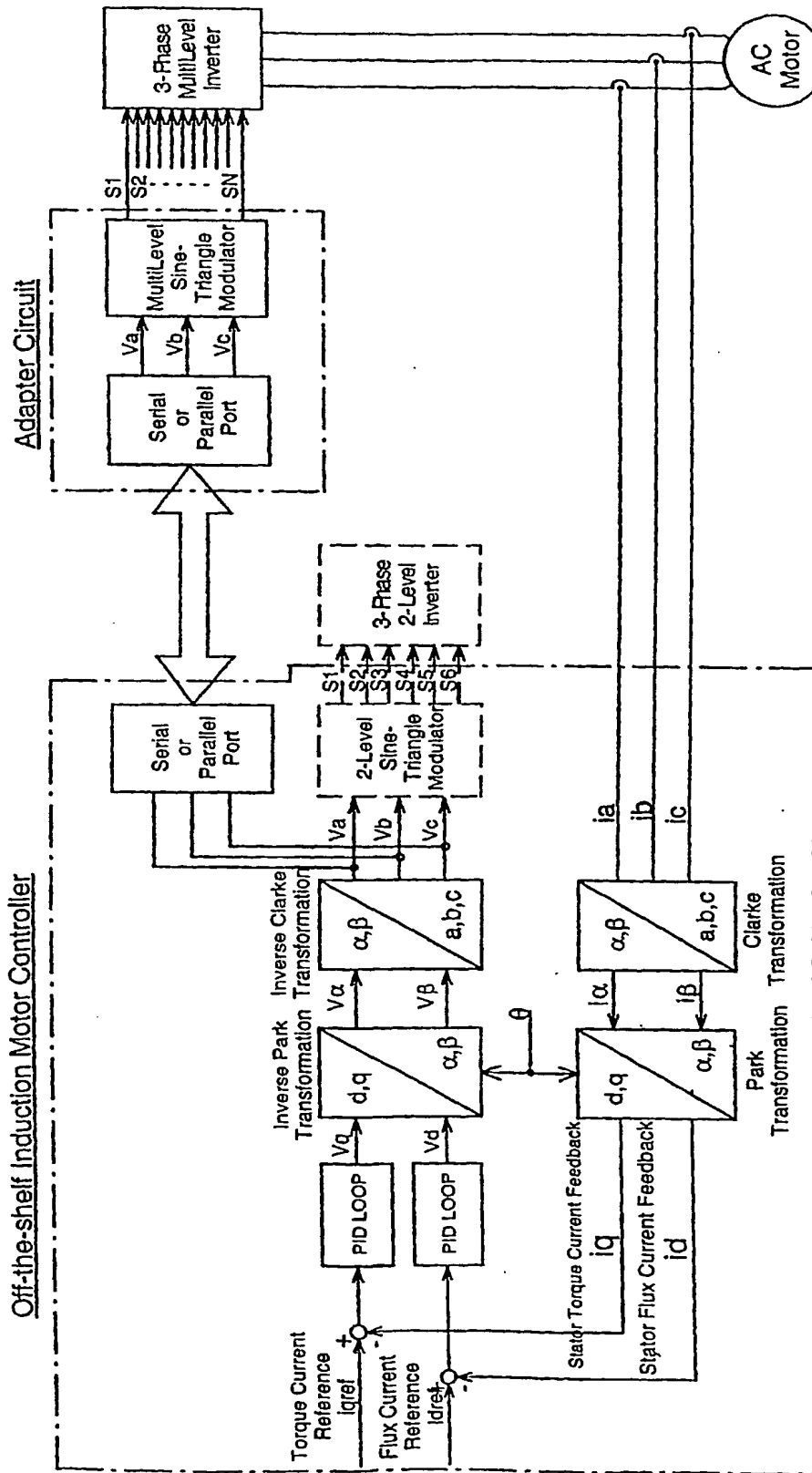


FIG. 30B

Example of the Second Variation of the Invention with
Mathematical Transformations and Sine-Triangle Modulator

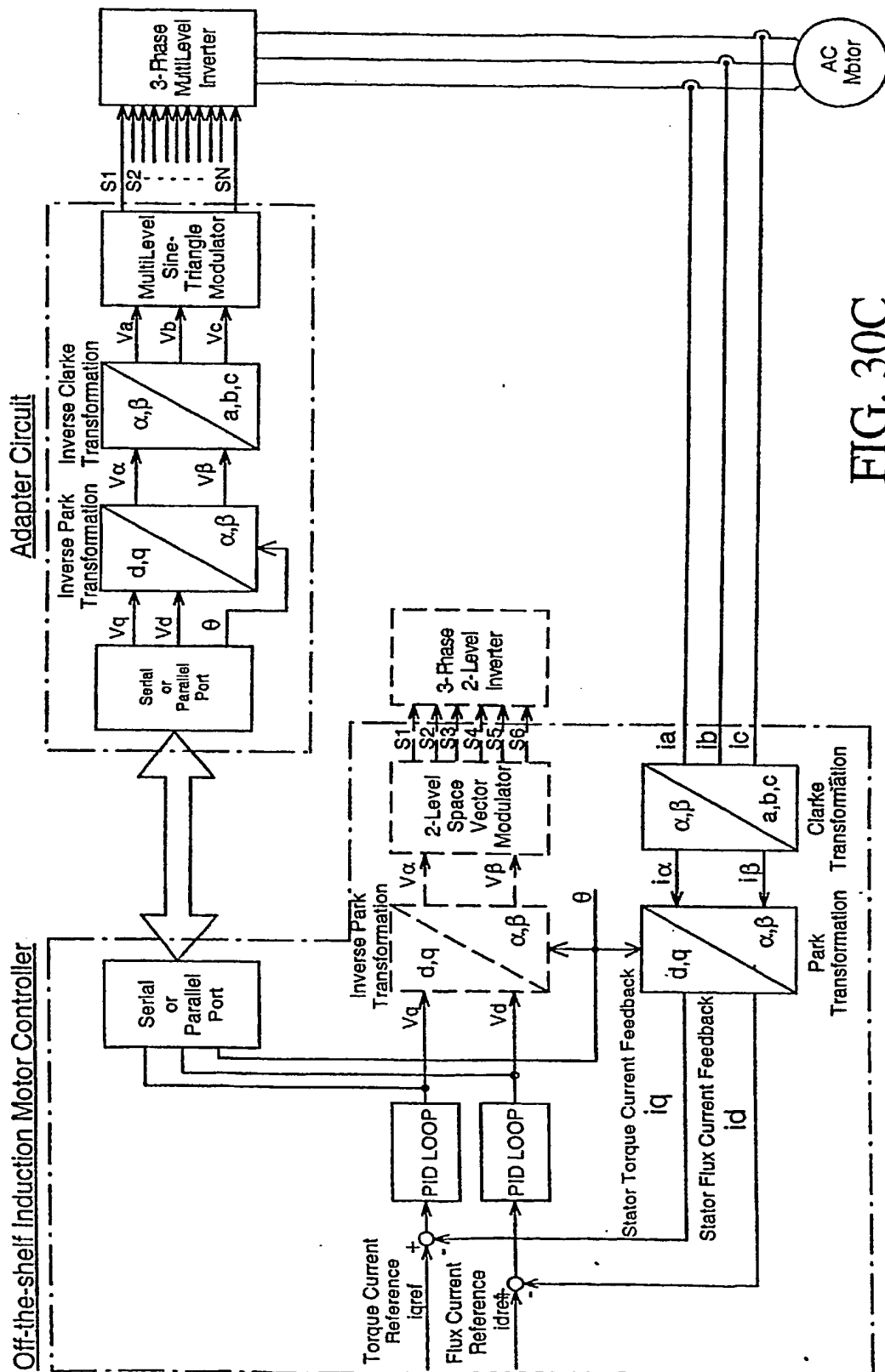


FIG. 30C

Example of the Second Variation of the Invention with
Mathematical Transformation and Space Vector Modulator

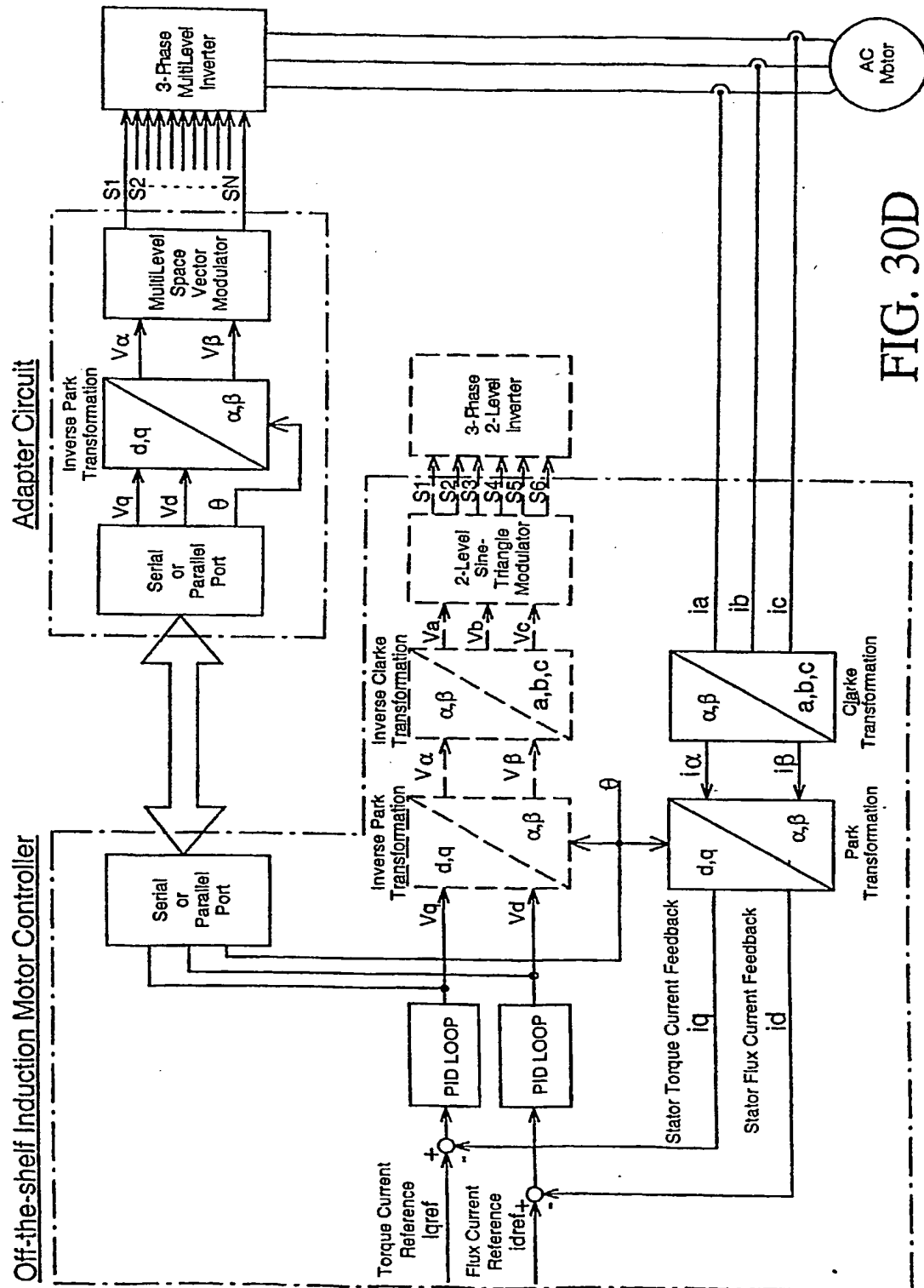


FIG. 30D

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